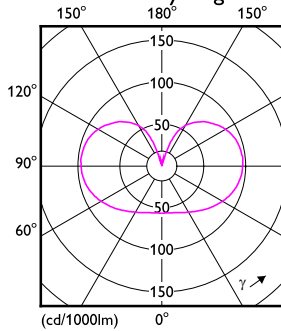
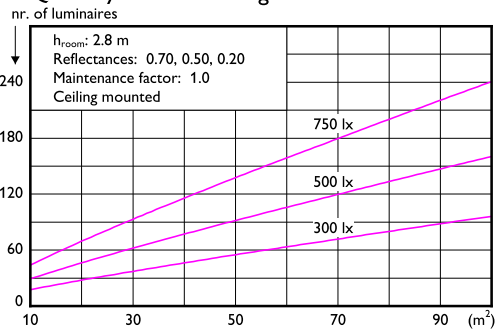
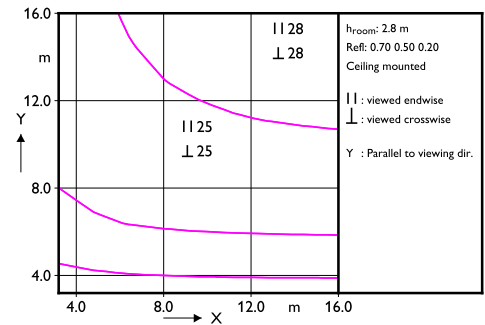


1 x 9290012429D 4.5W 2700K**1 x 470 lm****Polar intensity diagram****Quantity estimation diagram****UGR diagram**

Light output ratio 1.00
Service upward 0.49
Service downward 0.51

CIE flux code 19 43 71 51 100

UGRcen (4Hx8H, 0.25H) 25

Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.60	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.80	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
1.00	0.30	0.10	0.30	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.00	0.00
1.25	0.60	0.32	0.31	0.30	0.29	0.22	0.18	0.14	0.15	0.11	0.06	0.06
1.50	0.42	0.40	0.39	0.38	0.36	0.29	0.24	0.19	0.19	0.15	0.09	0.09
1.75	0.50	0.46	0.45	0.44	0.42	0.34	0.29	0.24	0.23	0.19	0.11	0.11
2.00	0.57	0.52	0.52	0.50	0.48	0.40	0.34	0.29	0.27	0.23	0.14	0.14
2.50	0.63	0.57	0.57	0.55	0.52	0.45	0.38	0.33	0.31	0.27	0.17	0.17
3.00	0.72	0.64	0.65	0.62	0.59	0.52	0.44	0.39	0.36	0.32	0.21	0.21
4.00	0.78	0.69	0.71	0.67	0.64	0.57	0.48	0.44	0.40	0.36	0.24	0.24
5.00	0.83	0.72	0.75	0.71	0.67	0.61	0.52	0.48	0.43	0.39	0.26	0.26
6.00	0.89	0.77	0.81	0.76	0.71	0.66	0.56	0.53	0.47	0.44	0.30	0.30
7.00	0.94	0.80	0.85	0.79	0.75	0.70	0.60	0.56	0.50	0.47	0.33	0.33

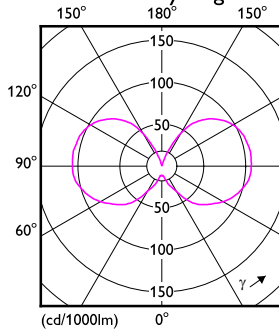
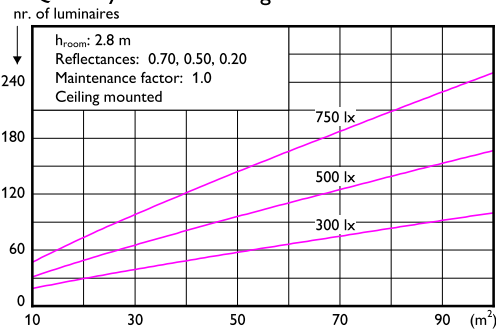
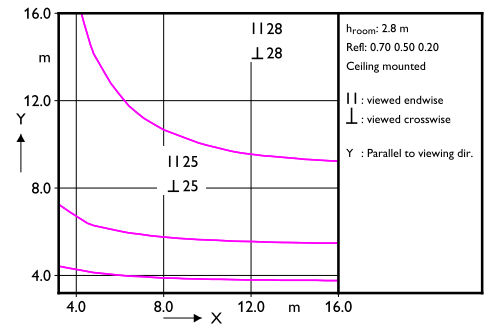
Ceiling mounted

Luminance Table

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	8211	7553	7191	7075	7191	7553	8211
50.0	8831	8053	7630	7496	7630	8053	8831
55.0	9521	8602	8111	7956	8111	8602	9521
60.0	10391	9298	8721	8540	8721	9298	10391
65.0	11372	10069	9392	9181	9392	10069	11372
70.0	12485	10925	10130	9884	10130	10925	12485
75.0	13838	11951	11007	10718	11007	11951	13838
80.0	15384	13084	11960	11619	11960	13084	15384
85.0	17365	14501	13139	12732	13139	14501	17365
90.0	19772	16144	14474	13981	14474	16144	19772

(cd/m²)

2021-01-25

1 x 9290018900C 4.3W 2700K**1 x 470 lm****Polar intensity diagram****Quantity estimation diagram****UGR diagram**

Light output ratio 1.00
 Service upward 0.52
 Service downward 0.48

CIE flux code 11 35 66 48 100

UGRcen (4Hx8H, 0.25H) 26

Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.60	0.31	0.30	0.28	0.28	0.27	0.20	0.16	0.11	0.12	0.08	0.03	0.00
0.80	0.40	0.38	0.36	0.35	0.34	0.26	0.21	0.16	0.16	0.12	0.05	0.00
1.00	0.47	0.44	0.43	0.41	0.40	0.32	0.26	0.21	0.20	0.16	0.07	0.00
1.25	0.54	0.50	0.49	0.47	0.45	0.37	0.30	0.25	0.24	0.20	0.10	0.00
1.50	0.60	0.55	0.54	0.52	0.50	0.42	0.34	0.29	0.27	0.23	0.12	0.00
2.00	0.69	0.62	0.62	0.59	0.56	0.49	0.41	0.36	0.32	0.28	0.16	0.00
2.50	0.76	0.67	0.68	0.64	0.61	0.54	0.45	0.40	0.36	0.32	0.20	0.00
3.00	0.80	0.70	0.72	0.68	0.65	0.58	0.49	0.44	0.39	0.36	0.22	0.00
4.00	0.87	0.75	0.79	0.74	0.69	0.64	0.53	0.50	0.43	0.40	0.26	0.00
5.00	0.92	0.79	0.83	0.77	0.72	0.68	0.57	0.53	0.46	0.44	0.28	0.00

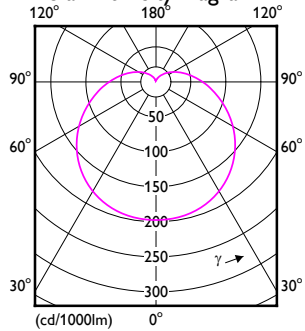
Ceiling mounted

Luminance Table

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	7474	6893	6572	6469	6572	6893	7474
50.0	8386	7667	7275	7151	7275	7667	8386
55.0	9459	8571	8093	7942	8093	8571	9459
60.0	10799	9690	9102	8917	9102	9690	10799
65.0	12225	10852	10137	9914	10137	10852	12225
70.0	13796	12103	11236	10968	11236	12103	13796
75.0	15529	13441	12393	12073	12393	13441	15529
80.0	17763	15134	13846	13456	13846	15134	17763
85.0	20198	16886	15308	14835	15308	16886	20198
90.0	23148	18900	16946	16368	16946	18900	23148

(cd/m²)

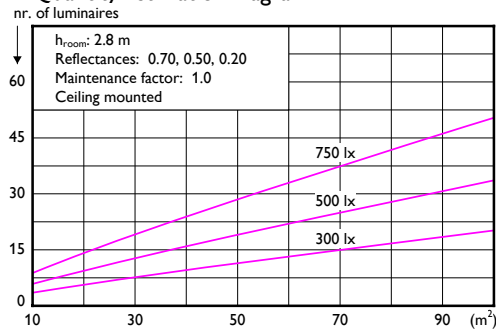
2021-01-20

1 x 9290020622 15W 2700K**1 x 1900 lm****Polar intensity diagram**

Light output ratio 1.00
 Service upward 0.19
 Service downward 0.81

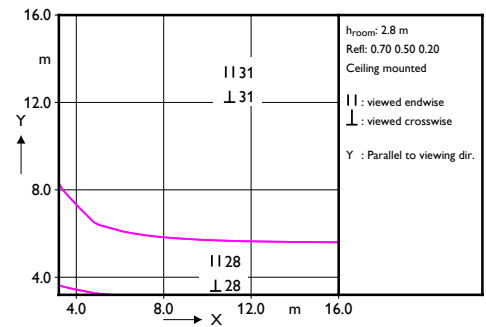
CIE flux code 35 63 85 81 100

UGRcen (4Hx8H, 0.25H) 30

Quantity estimation diagram**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.60	0.40	0.38	0.39	0.38	0.37	0.29	0.28	0.23	0.26	0.22	0.18	0.18
0.80	0.50	0.47	0.48	0.46	0.45	0.37	0.35	0.30	0.33	0.28	0.24	0.24
1.00	0.58	0.54	0.55	0.53	0.52	0.44	0.41	0.36	0.38	0.34	0.29	0.29
1.25	0.66	0.60	0.63	0.60	0.58	0.50	0.47	0.42	0.44	0.39	0.34	0.34
1.50	0.72	0.65	0.68	0.66	0.63	0.55	0.52	0.47	0.48	0.44	0.39	0.39
2.00	0.81	0.73	0.77	0.74	0.70	0.63	0.59	0.55	0.56	0.51	0.45	0.45
2.50	0.88	0.78	0.84	0.79	0.75	0.69	0.65	0.60	0.60	0.57	0.50	0.50
3.00	0.93	0.81	0.88	0.83	0.79	0.73	0.68	0.64	0.64	0.61	0.54	0.54
4.00	1.00	0.86	0.94	0.88	0.83	0.79	0.74	0.70	0.69	0.66	0.59	0.59
5.00	1.04	0.89	0.98	0.92	0.86	0.82	0.77	0.74	0.72	0.69	0.62	0.62

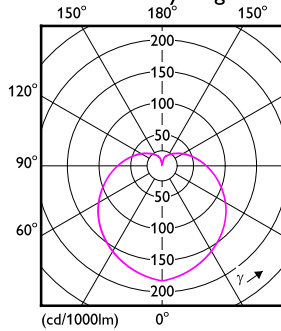
Ceiling mounted

UGR diagram**Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	56461	51999	49538	48751	49538	51999	56461
50.0	54298	49574	47003	46186	47003	49574	54298
55.0	52239	47261	44590	43747	44590	47261	52239
60.0	50244	45015	42251	41384	42251	45015	50244
65.0	48479	42976	40113	39222	40113	42976	48479
70.0	46952	41135	38163	37245	38163	41135	46952
75.0	45541	39370	36279	35333	36279	39370	45541
80.0	44624	37984	34734	33749	34734	37984	44624
85.0	44114	36858	33404	32370	33404	36858	44114
90.0	44318	36185	32443	31338	32443	36185	44318

(cd/m²)

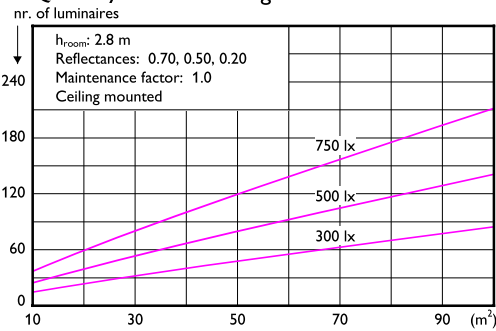
2021-06-05

1 x 9290023059 5.5W 2700K**1 x 470 lm****Polar intensity diagram**

Light output ratio 0.99
 Service upward 0.25
 Service downward 0.74

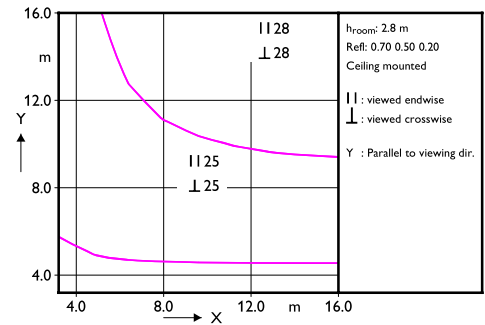
CIE flux code 34 61 83 75 99

UGRcen (4Hx8H, 0.25H) 26

Quantity estimation diagram**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80			0.70			0.50			0.30		
	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30
0.60	0.39	0.37	0.30	0.37	0.36	0.30	0.26	0.21	0.24	0.20	0.16	0.16
0.80	0.48	0.45	0.46	0.45	0.43	0.36	0.33	0.28	0.30	0.26	0.21	0.21
1.00	0.56	0.52	0.53	0.51	0.50	0.42	0.39	0.33	0.35	0.31	0.26	0.26
1.25	0.64	0.58	0.60	0.58	0.56	0.48	0.44	0.39	0.41	0.36	0.31	0.31
1.50	0.70	0.63	0.66	0.63	0.60	0.53	0.49	0.44	0.45	0.41	0.34	0.34
2.00	0.79	0.71	0.75	0.71	0.67	0.61	0.56	0.51	0.51	0.48	0.41	0.41
2.50	0.85	0.75	0.80	0.76	0.72	0.66	0.61	0.57	0.56	0.52	0.45	0.45
3.00	0.90	0.79	0.85	0.80	0.76	0.70	0.65	0.61	0.59	0.56	0.48	0.48
4.00	0.97	0.84	0.91	0.85	0.80	0.76	0.70	0.66	0.64	0.61	0.53	0.53
5.00	1.01	0.87	0.95	0.88	0.83	0.79	0.73	0.70	0.67	0.64	0.56	0.56

Ceiling mounted

UGR diagram**Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	14562	13283	12588	12367	12588	13283	14562
50.0	14063	12714	11991	11763	11991	12714	14063
55.0	13581	12167	11419	11185	11419	12167	13581
60.0	13153	11671	10899	10659	10899	11671	13153
65.0	12822	11261	10461	10213	10461	11261	12822
70.0	12480	10840	10013	9759	10013	10840	12480
75.0	12256	10515	9653	9390	9653	10515	12256
80.0	12099	10236	9333	9060	9333	10236	12099
85.0	12116	10086	9125	8837	9125	10086	12116
90.0	12276	10023	8987	8680	8987	10023	12276

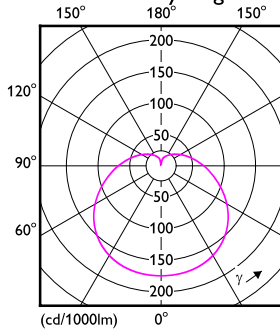
(cd/m²)

2021-09-02

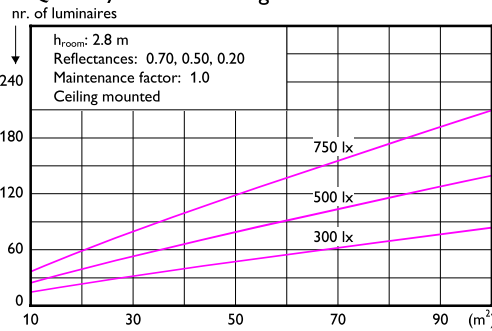
1 x 9290023060 5W 4000K

1 x 470 lm

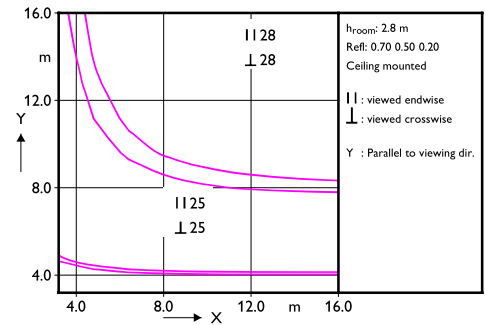
Polar intensity diagram



Quantity estimation diagram



UGR diagram



Light output ratio 0.99
Service upward 0.23
Service downward 0.76

CIE flux code 34 62 84 77 99

UGRcen (4Hx8H, 0.25H) 26

Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80 0.80				0.70 0.70				0.50 0.50			
	0.80	0.50	0.30	0.10	0.70	0.50	0.30	0.10	0.50	0.30	0.10	0.00
0.60	0.39	0.37	0.37	0.36	0.36	0.28	0.26	0.21	0.24	0.20	0.17	0.17
0.80	0.48	0.46	0.46	0.45	0.44	0.36	0.33	0.28	0.31	0.26	0.22	0.22
1.00	0.56	0.52	0.54	0.52	0.50	0.42	0.39	0.34	0.36	0.32	0.27	0.27
1.25	0.64	0.59	0.61	0.58	0.56	0.49	0.45	0.40	0.42	0.37	0.32	0.32
1.50	0.70	0.64	0.67	0.64	0.61	0.54	0.50	0.45	0.46	0.42	0.36	0.36
2.00	0.80	0.71	0.75	0.72	0.68	0.62	0.57	0.52	0.53	0.49	0.42	0.42
2.50	0.86	0.76	0.81	0.77	0.73	0.67	0.62	0.58	0.57	0.54	0.47	0.47
3.00	0.91	0.80	0.86	0.81	0.76	0.71	0.66	0.62	0.61	0.58	0.50	0.50
4.00	0.97	0.84	0.92	0.86	0.81	0.76	0.71	0.67	0.65	0.63	0.55	0.55
5.00	1.02	0.87	0.96	0.89	0.84	0.80	0.74	0.71	0.68	0.66	0.58	0.58

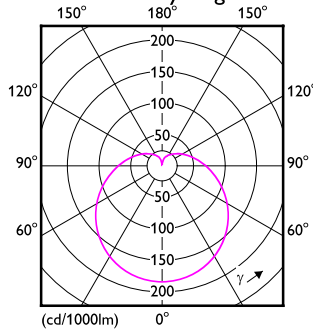
Ceiling mounted

Luminance Table

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	18603	16632	15506	15025	15111	15777	17134
50.0	17836	15777	14620	14130	14218	14897	16298
55.0	17125	14983	13799	13303	13391	14082	15520
60.0	16375	14162	12962	12462	12551	13247	14712
65.0	15724	13434	12214	11711	11800	12502	13998
70.0	15164	12784	11543	11036	11125	11834	13365
75.0	14628	12153	10890	10379	10469	11185	12750
80.0	14300	11685	10383	9863	9954	10685	12308
85.0	14106	11306	9952	9419	9512	10264	11963
90.0	14110	11053	9625	9070	9167	9951	11758

(cd/m²)

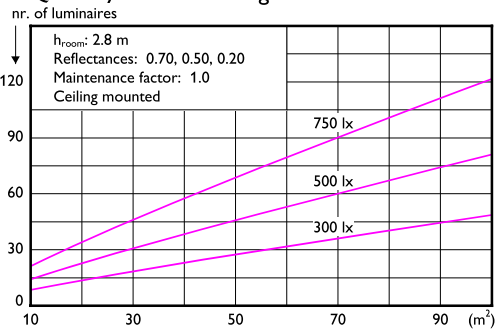
2021-09-02

1 x 9290023062 8W 2700K**1 x 806 lm****Polar intensity diagram**

Light output ratio 1.00
 Service upward 0.24
 Service downward 0.76

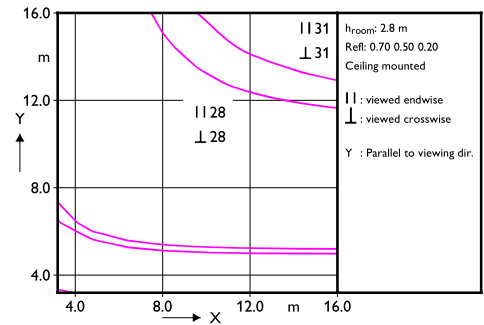
CIE flux code 34 62 83 76 100

UGRcen (4Hx8H, 0.25H) 28

Quantity estimation diagram**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80			0.70			0.50			0.30		
	0.80			0.70			0.50			0.30		
	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30	0.80	0.50	0.30
0.60	0.39	0.37	0.37	0.37	0.37	0.36	0.28	0.26	0.21	0.24	0.20	0.16
0.80	0.49	0.46	0.46	0.45	0.44	0.36	0.33	0.33	0.28	0.31	0.26	0.22
1.00	0.57	0.53	0.54	0.52	0.50	0.42	0.39	0.39	0.34	0.36	0.32	0.27
1.25	0.65	0.59	0.61	0.59	0.57	0.49	0.45	0.45	0.40	0.42	0.37	0.31
1.50	0.71	0.64	0.67	0.64	0.61	0.54	0.50	0.50	0.45	0.46	0.42	0.35
2.00	0.80	0.72	0.76	0.72	0.68	0.62	0.57	0.57	0.52	0.53	0.49	0.42
2.50	0.87	0.76	0.82	0.77	0.73	0.67	0.62	0.62	0.58	0.57	0.54	0.46
3.00	0.91	0.80	0.86	0.81	0.77	0.71	0.66	0.66	0.62	0.61	0.57	0.50
4.00	0.98	0.85	0.92	0.86	0.81	0.76	0.71	0.71	0.67	0.65	0.62	0.54
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.74	0.71	0.68	0.66	0.57

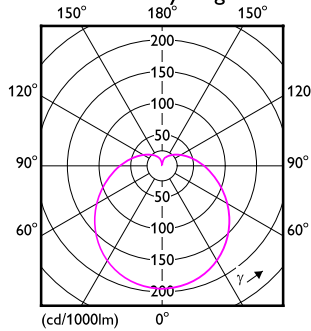
Ceiling mounted

UGR diagram**Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	31507	28169	26262	25448	25593	26721	29020
50.0	30203	26717	24758	23928	24076	25227	27598
55.0	28960	25337	23336	22496	22645	23813	26245
60.0	27848	24085	22043	21194	21344	22528	25020
65.0	26805	22901	20822	19965	20117	21313	23863
70.0	25995	21915	19787	18918	19072	20287	22910
75.0	25315	21031	18845	17962	18117	19355	22064
80.0	24861	20313	18050	17147	17305	18575	21396
85.0	24724	19817	17444	16509	16673	17991	20968
90.0	24862	19477	16959	15982	16152	17534	20719

(cd/m²)

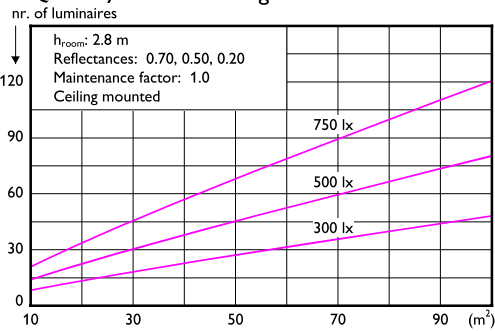
2021-09-02

1 x 9290023063 8W 4000K**1 x 806 lm****Polar intensity diagram**

Light output ratio 1.00
 Service upward 0.23
 Service downward 0.77

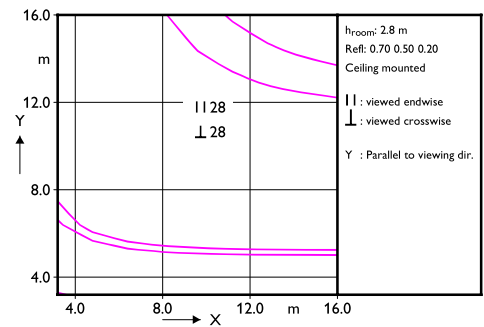
CIE flux code 35 63 84 77 100

UGR_{cen} (4Hx8H, 0.25H) 28

Quantity estimation diagram**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80				0.70				0.50			
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.40	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.50	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.60	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.70	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.80	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.90	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
1.00	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
1.25	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
1.50	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
2.00	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
2.50	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
3.00	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
4.00	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
5.00	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00

Ceiling mounted

UGR diagram**Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	29795	27435	26277	26127	26964	28922	32349
50.0	28095	25681	24509	24359	25203	27197	30746
55.0	26481	24026	22848	22697	23545	25564	29219
60.0	25034	22540	21356	21205	22055	24098	27863
65.0	23700	21168	19980	19829	20680	22745	26623
70.0	22489	19914	18720	18570	19423	21512	25517
75.0	21521	18879	17672	17520	18381	20513	24692
80.0	20746	18011	16780	16626	17502	19696	24106
85.0	20155	17293	16026	15869	16767	19048	23765
90.0	19855	16803	15479	15316	16252	18665	23826

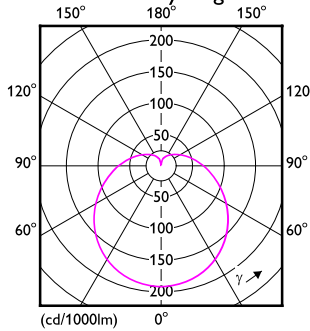
(cd/m²)

2021-09-02

1 x 9290023064 8W 6500K

1 x 806 lm

Polar intensity diagram

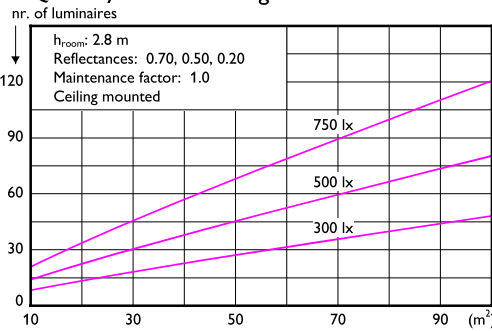


Light output ratio 1.00
Service upward 0.23
Service downward 0.77

CIE flux code 35 63 84 77 100

UGRcen (4Hx8H, 0.25H) 28

Quantity estimation diagram

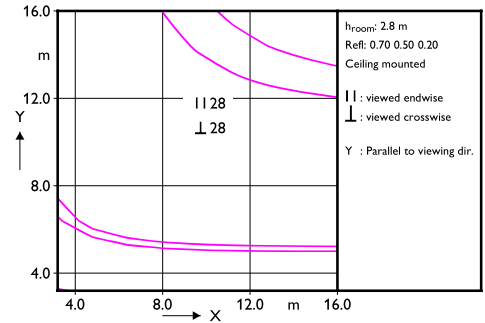


Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80 0.80				0.70 0.70				0.50 0.50			
	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
0.40	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
0.50	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
0.60	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
0.70	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
0.80	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
0.90	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
1.00	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
1.25	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
1.50	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
2.00	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
2.50	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
3.00	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
4.00	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
5.00	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00

Ceiling mounted

UGR diagram

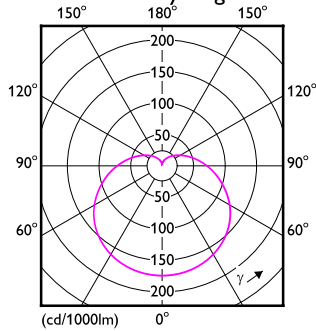


Luminance Table

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	29559	27218	26069	25921	26750	28693	32093
50.0	27953	25552	24385	24236	25076	27060	30591
55.0	26427	23978	22801	22651	23497	25512	29160
60.0	25030	22536	21352	21202	22051	24094	27858
65.0	23728	21192	20003	19852	20704	22771	26654
70.0	22591	20004	18806	18655	19511	21610	25633
75.0	21645	18987	17773	17621	18487	20631	24834
80.0	20871	18119	16881	16726	17607	19815	24251
85.0	20361	17469	16190	16031	16939	19243	24008
90.0	20033	16954	15618	15453	16397	18832	24039

(cd/m²)

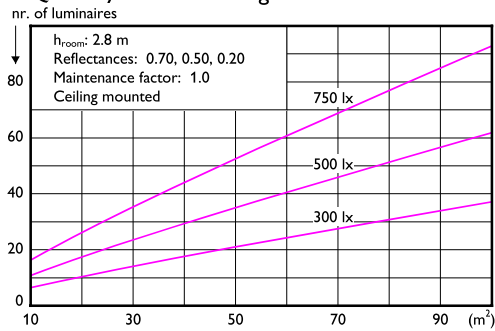
2021-09-02

1 x 9290023065 10W 2700K**1 x 1055 lm****Polar intensity diagram**

Light output ratio 1.00
 Service upward 0.22
 Service downward 0.78

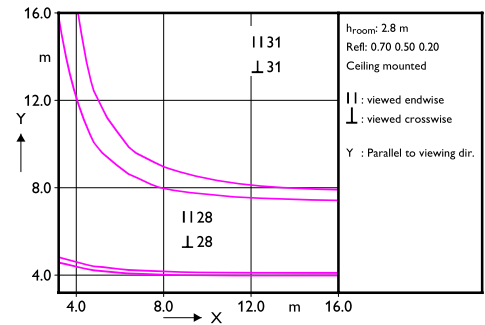
CIE flux code 33 61 83 78 100

UGRcen (4Hx8H, 0.25H) 29

Quantity estimation diagram**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80 0.80				0.70 0.70				0.50 0.50			
	0.80	0.50	0.30	0.10	0.80	0.50	0.30	0.10	0.80	0.50	0.30	0.10
0.60	0.39	0.37	0.37	0.36	0.36	0.28	0.26	0.21	0.24	0.20	0.16	
0.80	0.49	0.46	0.46	0.45	0.44	0.36	0.33	0.28	0.31	0.26	0.22	
1.00	0.56	0.52	0.54	0.52	0.50	0.42	0.39	0.34	0.36	0.32	0.27	
1.25	0.64	0.59	0.61	0.59	0.56	0.49	0.45	0.40	0.42	0.37	0.32	
1.50	0.70	0.64	0.67	0.64	0.61	0.54	0.50	0.45	0.46	0.42	0.36	
2.00	0.80	0.71	0.76	0.72	0.69	0.62	0.57	0.52	0.53	0.49	0.42	
2.50	0.87	0.76	0.82	0.77	0.73	0.67	0.62	0.58	0.58	0.54	0.47	
3.00	0.91	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.61	0.58	0.51	
4.00	0.98	0.85	0.92	0.87	0.81	0.77	0.71	0.68	0.66	0.63	0.55	
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.75	0.71	0.69	0.66	0.58	

Ceiling mounted

UGR diagram**Luminance Table**

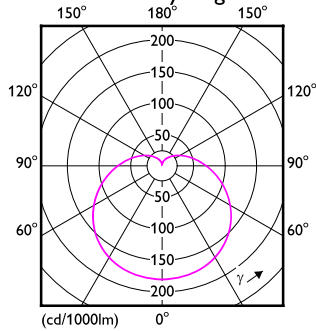
Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	42549	37965	35319	34145	34251	35656	38589
50.0	41171	36332	33587	32379	32489	33935	36984
55.0	39990	34889	32047	30808	30920	32405	35570
60.0	38857	33496	30564	29298	29412	30931	34204
65.0	37670	32060	29051	27765	27880	29426	32792
70.0	36699	30801	27705	26395	26512	28088	31562
75.0	35866	29639	26446	25111	25230	26839	30432
80.0	35159	28549	25248	23885	24006	25650	29377
85.0	34839	27717	24267	22862	22987	24684	28594
90.0	34743	26971	23341	21887	22015	23775	27908

(cd/m²)

2021-09-02

1 x 9290023066 10W 4000K**1 x 1055 lm**

Polar intensity diagram

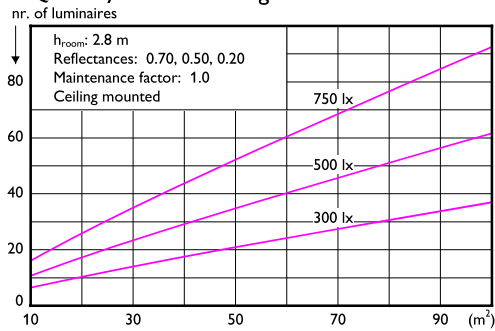


Light output ratio 1.00
 Service upward 0.22
 Service downward 0.78

CIE flux code 34 62 83 78 100

UGRcen (4Hx8H, 0.25H) 29

Quantity estimation diagram

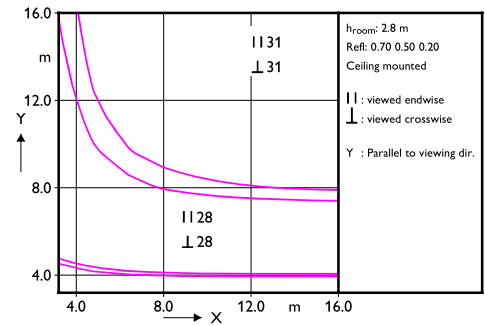


Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80				0.70				0.50			
	0.80	0.50	0.30	0.10	0.80	0.50	0.30	0.10	0.80	0.50	0.30	0.10
0.60	0.39	0.37	0.38	0.37	0.36	0.28	0.26	0.22	0.25	0.20	0.17	0.17
0.80	0.49	0.46	0.47	0.45	0.44	0.36	0.34	0.28	0.31	0.27	0.22	0.22
1.00	0.57	0.53	0.54	0.52	0.51	0.43	0.40	0.34	0.37	0.32	0.27	0.27
1.25	0.65	0.59	0.61	0.59	0.57	0.49	0.46	0.40	0.42	0.38	0.32	0.32
1.50	0.71	0.64	0.67	0.64	0.62	0.54	0.50	0.45	0.47	0.42	0.36	0.36
2.00	0.80	0.72	0.76	0.72	0.69	0.62	0.58	0.53	0.53	0.49	0.43	0.43
2.50	0.87	0.77	0.82	0.78	0.74	0.68	0.63	0.58	0.58	0.54	0.47	0.47
3.00	0.92	0.80	0.87	0.82	0.77	0.72	0.66	0.62	0.62	0.58	0.51	0.51
4.00	0.98	0.85	0.92	0.87	0.82	0.77	0.71	0.68	0.66	0.63	0.55	0.55
5.00	1.02	0.88	0.96	0.90	0.85	0.80	0.75	0.72	0.69	0.67	0.59	0.59

Ceiling mounted

UGR diagram

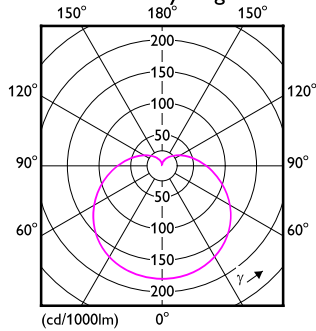


Luminance Table

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	43453	38771	36069	34870	34979	36414	39408
50.0	41974	37041	34242	33011	33122	34597	37705
55.0	40548	35376	32494	31237	31351	32857	36066
60.0	39244	33830	30869	29591	29706	31240	34545
65.0	37889	32246	29220	27926	28043	29597	32983
70.0	36690	30793	27698	26388	26506	28081	31554
75.0	35729	29526	26345	25015	25134	26736	30315
80.0	34942	28373	25093	23738	23859	25493	29197
85.0	34355	27332	23930	22545	22668	24341	28197
90.0	34359	26674	23084	21645	21772	23513	27600

(cd/m²)

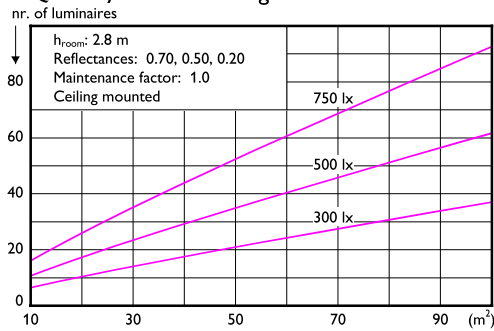
2021-09-02

1 x 9290023067 10W 6500K**1 x 1055 lm****Polar intensity diagram**

Light output ratio 1.00
 Service upward 0.22
 Service downward 0.78

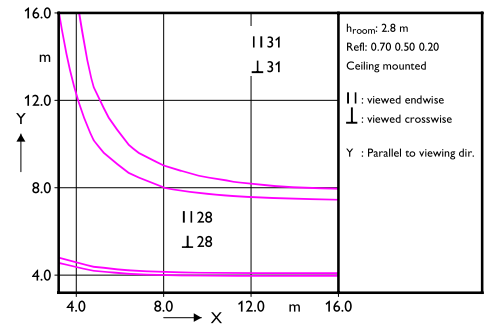
CIE flux code 34 61 83 78 100

UGRcen (4Hx8H, 0.25H) 29

Quantity estimation diagram**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.40	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
0.50	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
0.60	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
0.70	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
0.80	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
0.90	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
1.00	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
1.25	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
1.50	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
2.00	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
2.50	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
3.00	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
4.00	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00
5.00	0.80	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.00	0.00

Ceiling mounted

UGR diagram**Luminance Table**

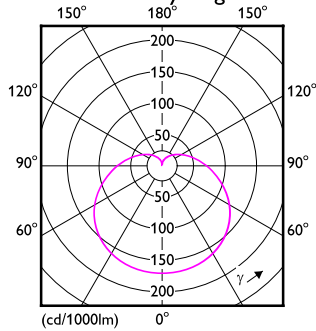
Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	43211	38555	35869	34676	34784	36211	39189
50.0	41730	36826	34043	32819	32930	34396	37487
55.0	40309	35168	32303	31054	31167	32664	35854
60.0	38940	33568	30630	29361	29476	30998	34278
65.0	37697	32083	29072	27785	27901	29447	32816
70.0	36578	30699	27614	26308	26425	27995	31458
75.0	35615	29432	26262	24936	25054	26651	30219
80.0	34875	28319	25045	23692	23813	25444	29141
85.0	34460	27415	24003	22614	22737	24415	28282
90.0	34446	26741	23142	21700	21827	23572	27670

(cd/m²)

2021-09-02

1 x 9290023068 13W 2700K**1 x 1521 lm**

Polar intensity diagram

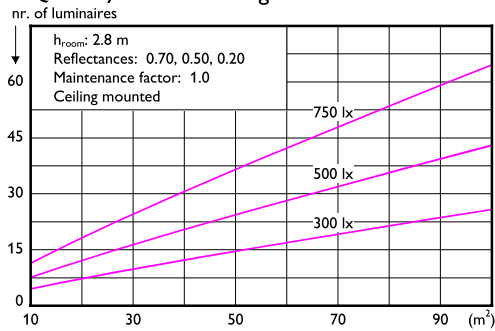


Light output ratio 1.00
 Service upward 0.23
 Service downward 0.77

CIE flux code 33 61 83 77 100

UGRcen (4Hx8H, 0.25H) 30

Quantity estimation diagram

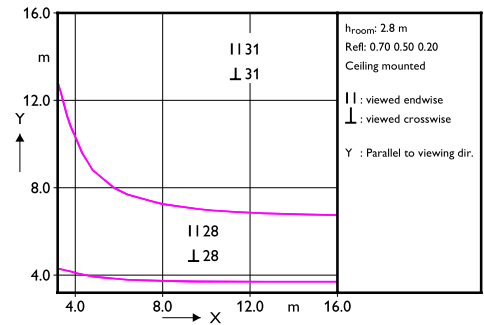


Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80				0.70				0.50			
	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
0.60	0.39	0.37	0.37	0.36	0.35	0.28	0.26	0.21	0.24	0.20	0.16	
0.80	0.48	0.46	0.46	0.45	0.44	0.36	0.33	0.28	0.30	0.26	0.22	
1.00	0.56	0.52	0.54	0.52	0.50	0.42	0.39	0.34	0.36	0.31	0.26	
1.25	0.64	0.59	0.61	0.59	0.56	0.49	0.45	0.40	0.41	0.37	0.31	
1.50	0.70	0.64	0.67	0.64	0.61	0.54	0.50	0.44	0.46	0.41	0.35	
2.00	0.80	0.71	0.75	0.72	0.68	0.62	0.57	0.52	0.53	0.49	0.42	
2.50	0.86	0.76	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.54	0.46	
3.00	0.91	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.61	0.57	0.50	
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.63	0.55	
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.69	0.66	0.58	

Ceiling mounted

UGR diagram

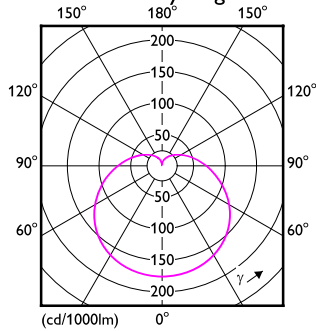


Luminance Table

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	47404	43010	40642	39893	40642	43010	47404
50.0	45795	41183	38731	37961	38731	41183	45795
55.0	44228	39415	36891	36102	36891	39415	44228
60.0	42552	37565	34987	34187	34987	37565	42552
65.0	40951	35793	33167	32357	33167	35793	40951
70.0	39474	34135	31460	30641	31460	34135	39474
75.0	38177	32628	29897	29067	29897	32628	38177
80.0	37057	31259	28459	27616	28459	31259	37057
85.0	36240	30115	27222	26359	27222	30115	36240
90.0	35903	29314	26283	25387	26283	29314	35903

(cd/m²)

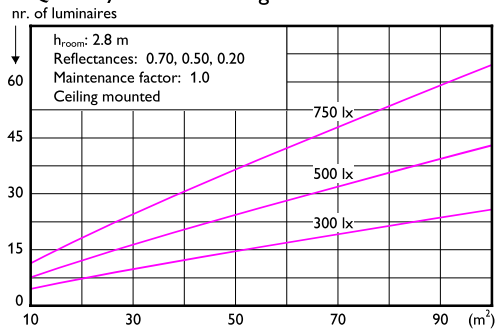
2021-09-02

1 x 9290023069 13W 4000K**1 x 1521 lm****Polar intensity diagram**

Light output ratio 1.00
 Service upward 0.23
 Service downward 0.77

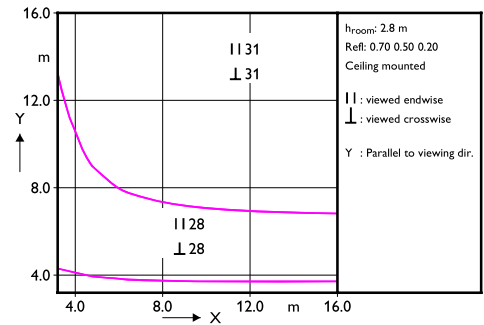
CIE flux code 33 61 83 77 100

UGRcen (4Hx8H, 0.25H) 30

Quantity estimation diagram**Utilisation factor table**

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80				0.70				0.50			
	0.80	0.80	0.50	0.50	0.70	0.70	0.50	0.50	0.30	0.30	0.10	0.00
0.30	0.10	0.30	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00
0.60	0.39	0.37	0.37	0.36	0.35	0.28	0.26	0.21	0.24	0.20	0.16	
0.80	0.48	0.46	0.46	0.45	0.44	0.36	0.33	0.28	0.30	0.26	0.22	
1.00	0.56	0.52	0.54	0.52	0.50	0.42	0.39	0.34	0.36	0.31	0.26	
1.25	0.64	0.59	0.61	0.59	0.56	0.49	0.45	0.40	0.41	0.37	0.31	
1.50	0.70	0.64	0.67	0.64	0.61	0.54	0.50	0.44	0.46	0.41	0.35	
2.00	0.80	0.71	0.75	0.72	0.68	0.62	0.57	0.52	0.53	0.49	0.42	
2.50	0.86	0.76	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.54	0.46	
3.00	0.91	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.61	0.57	0.50	
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.63	0.55	
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.69	0.66	0.58	

Ceiling mounted

UGR diagram**Luminance Table**

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	47785	43356	40968	40213	40968	43356	47785
50.0	45937	41311	38851	38078	38851	41311	45937
55.0	44199	39388	36866	36078	36866	39388	44199
60.0	42451	37476	34904	34106	34904	37476	42451
65.0	40813	35672	33055	32248	33055	35672	40813
70.0	39193	33892	31236	30423	31236	33892	39193
75.0	37864	32361	29652	28828	29652	32361	37864
80.0	36791	31034	28255	27418	28255	31034	36791
85.0	35913	29843	26977	26121	26977	29843	35913
90.0	35544	29022	26020	25133	26020	29022	35544

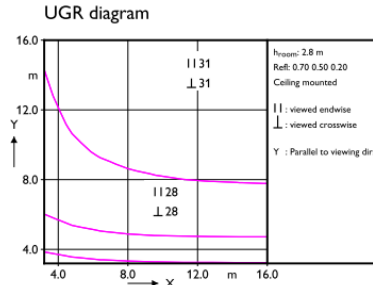
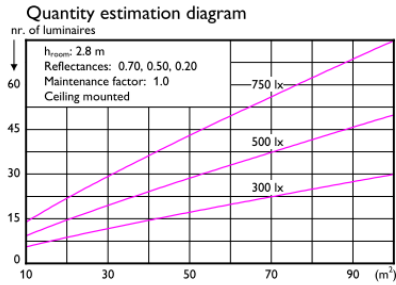
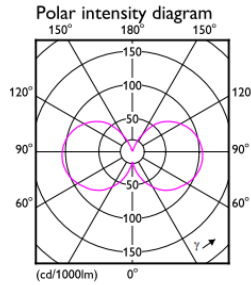
(cd/m²)

2021-09-02

General Uniform Lighting

9290020261IDST LED classic 100W A60 E27 WW CL ND

1 x 1521 lm



Light output ratio 1.00
Service upward 0.46
Service downward 0.54
CIE flux code 16 41 70 54 100
UGRcen (4Hx8H, 0.25H) 30

Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)															
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.80	0.80	0.70	0.70	0.70
0.60	0.32	0.31	0.30	0.29	0.28	0.21	0.17	0.13	0.14	0.10	0.05	0.30	0.29	0.28	0.21	0.17
0.80	0.41	0.39	0.38	0.37	0.36	0.27	0.23	0.18	0.19	0.14	0.08	0.40	0.39	0.38	0.27	0.23
1.00	0.48	0.45	0.44	0.43	0.41	0.33	0.28	0.23	0.23	0.18	0.11	0.47	0.45	0.44	0.33	0.28
1.25	0.56	0.51	0.51	0.49	0.47	0.39	0.33	0.28	0.27	0.23	0.14	0.55	0.52	0.51	0.39	0.33
1.50	0.62	0.56	0.56	0.54	0.52	0.44	0.37	0.32	0.30	0.26	0.16	0.61	0.58	0.56	0.44	0.37
2.00	0.71	0.63	0.65	0.61	0.58	0.51	0.43	0.38	0.36	0.32	0.21	0.70	0.67	0.65	0.51	0.43
2.50	0.77	0.68	0.70	0.67	0.63	0.56	0.48	0.43	0.40	0.36	0.24	0.77	0.74	0.70	0.56	0.48
3.00	0.82	0.72	0.75	0.70	0.67	0.60	0.52	0.47	0.43	0.39	0.27	0.82	0.79	0.75	0.60	0.52
4.00	0.89	0.77	0.81	0.76	0.71	0.66	0.57	0.53	0.47	0.44	0.31	0.89	0.86	0.81	0.66	0.57
5.00	0.93	0.80	0.85	0.79	0.75	0.70	0.60	0.57	0.50	0.48	0.34	0.93	0.90	0.85	0.70	0.60

Ceiling mounted

Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cone	45.0	23348	21692	20766	20468	20766	21692
45.0	23348	21692	20766	20468	20766	21692	23348
50.0	25574	23562	22452	22096	22452	23562	25574
55.0	27925	25499	24178	23758	24178	25499	27925
60.0	30885	27928	26342	25842	26342	27928	30885
65.0	34380	30665	28759	28162	28759	30665	34380
70.0	38109	33677	31383	30670	31383	33677	38109
75.0	42519	37045	34272	33418	34272	37045	42519
80.0	47816	40960	37574	36544	37574	40960	47816
85.0	54475	45698	41495	40233	41495	45698	54475
90.0	63067	51494	46169	44595	46169	51494	63067

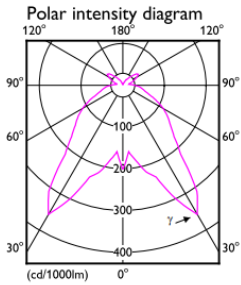
(cd/m²)

2021-01-24

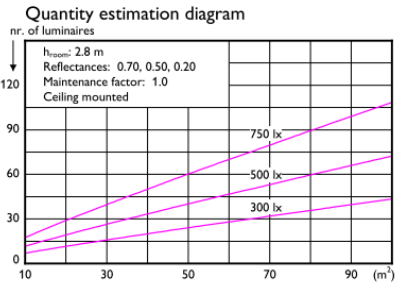
General Uniform Lighting

9290030333 IDST LED GLASS 60W A60 E27 FR

1 x 806 lm



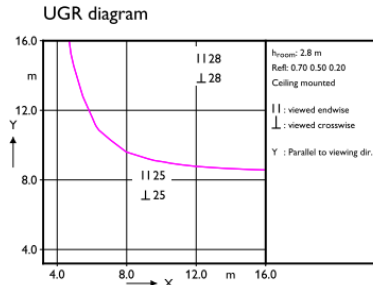
Light output ratio 1.00
 Service upward 0.15
 Service downward 0.85
 CIE flux code 50 77 92 85 100
 UGRcen (4Hx8H, 0.25H) 26



Utilisation factor table

Room Index	Reflectances (%) for ceiling, walls and working plane (CIE)														
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.30	0.00	0.00	0.00	0.00
0.50	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0.00
0.30	0.10	0.30	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0.00
0.60	0.48	0.46	0.47	0.46	0.45	0.38	0.36	0.32	0.35	0.31	0.28	0.28	0.28	0.28	0.28
0.80	0.38	0.55	0.56	0.55	0.53	0.46	0.44	0.40	0.42	0.38	0.35	0.35	0.35	0.35	0.35
1.00	0.46	0.62	0.64	0.62	0.60	0.53	0.51	0.46	0.48	0.44	0.41	0.41	0.41	0.41	0.41
1.25	0.74	0.68	0.71	0.69	0.66	0.60	0.57	0.52	0.54	0.50	0.46	0.46	0.46	0.46	0.46
1.50	0.80	0.73	0.77	0.74	0.71	0.65	0.62	0.57	0.59	0.55	0.50	0.50	0.50	0.50	0.50
2.00	0.89	0.80	0.86	0.81	0.78	0.72	0.69	0.65	0.66	0.62	0.57	0.57	0.57	0.57	0.57
2.50	0.96	0.84	0.91	0.86	0.82	0.77	0.74	0.70	0.70	0.67	0.62	0.62	0.62	0.62	0.62
3.00	1.00	0.88	0.96	0.90	0.85	0.81	0.77	0.74	0.73	0.71	0.65	0.65	0.65	0.65	0.65
4.00	1.06	0.91	1.01	0.95	0.89	0.85	0.81	0.79	0.77	0.75	0.69	0.69	0.69	0.69	0.69
5.00	1.09	0.94	1.04	0.97	0.91	0.88	0.84	0.82	0.80	0.78	0.72	0.72	0.72	0.72	0.72

Ceiling mounted



Luminance Table

Plane Const.	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	31679	29285	27958	27332	27958	29285	31679
50.0	27890	25563	24289	23883	24289	25563	27890
55.0	25547	23203	21938	21538	21938	23203	25547
60.0	22782	20492	19273	18890	19273	20492	22782
65.0	19518	17369	16244	15893	16244	17369	19518
70.0	15823	13912	12931	12627	12931	13912	15823
75.0	13804	11972	11050	10767	11050	11972	13804
80.0	12957	11058	10125	9842	10125	11058	12957
85.0	12233	10237	9285	9000	9285	10237	12233
90.0	10234	8356	7492	7236	7492	8356	10234

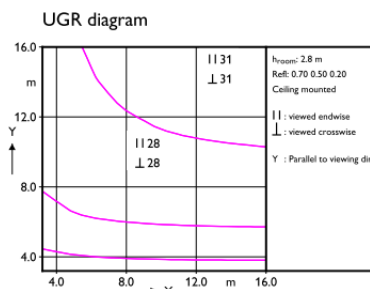
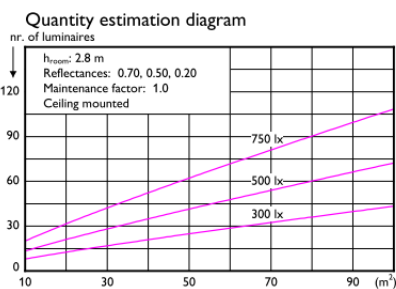
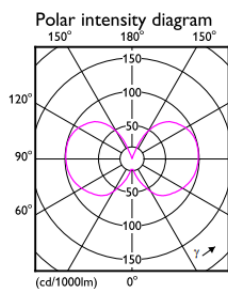
(cd/m²)

2021-01-25

General Uniform Lighting

9290030338 Filament 75W E27 2700K A60 CL ND

1 x 1055 lm



Light output ratio 1.00
Service upward 0.50
Service downward 0.50
CIE flux code 16 41 70 50 100
UGR_{cen} (4Hx8H, 0.25H) 28

Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)									
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30
0.60	0.33	0.31	0.30	0.29	0.28	0.21	0.17	0.13	0.14	0.10
0.80	0.41	0.39	0.38	0.37	0.36	0.28	0.23	0.18	0.18	0.14
1.00	0.49	0.45	0.44	0.43	0.41	0.33	0.28	0.23	0.22	0.18
1.25	0.56	0.51	0.51	0.49	0.47	0.39	0.32	0.27	0.26	0.22
1.50	0.62	0.56	0.56	0.54	0.52	0.44	0.37	0.31	0.29	0.25
2.00	0.71	0.63	0.64	0.61	0.58	0.51	0.43	0.38	0.35	0.31
2.50	0.77	0.68	0.70	0.66	0.63	0.56	0.47	0.43	0.39	0.35
3.00	0.82	0.72	0.74	0.70	0.66	0.60	0.51	0.47	0.42	0.38
4.00	0.89	0.77	0.80	0.75	0.71	0.66	0.56	0.52	0.46	0.43
5.00	0.93	0.80	0.84	0.79	0.74	0.69	0.59	0.56	0.49	0.46

Ceiling mounted

Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cote							
45.0	19519	18002	17163	16895	17163	18002	19519
50.0	21007	19207	18226	17913	18226	19207	21007
55.0	22862	20714	19559	19194	19559	20714	22862
60.0	24955	22390	21032	20605	21032	22390	24955
65.0	27261	24289	22688	22189	22688	24289	27261
70.0	30141	26442	24548	23963	24548	26442	30141
75.0	33289	28812	26567	25879	26567	28812	33289
80.0	37140	31643	28950	28133	28950	31643	37140
85.0	41833	34973	31705	30725	31705	34973	41833
90.0	48139	39305	35240	34039	35240	39305	48139

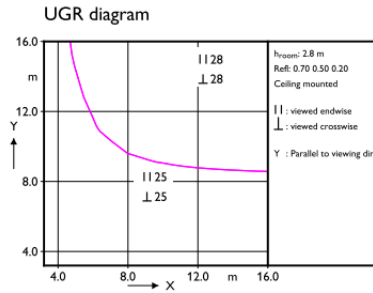
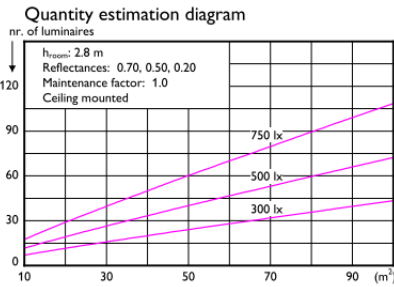
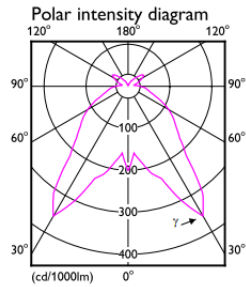
(cd/m²)

2021-01-24

General Uniform Lighting

9290030339 IDST LEDclear 60W E27 WW A60 ND

1 x 806 lm



Light output ratio 1.00
Service upward 0.15
Service downward 0.85
CIE flux code 50 77 92 85 100
UGRcen (4Hx8H, 0.25H) 26

Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)															
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.80	0.80	0.70	0.70	0.70
0.60	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.80	0.80	0.70	0.70	0.70
0.80	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.30	0.10	0.00	0.50	0.50	0.50	0.50	0.30
1.00	0.30	0.10	0.30	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.00	0.30	0.10	0.30	0.20	0.10
1.25	0.60	0.48	0.46	0.47	0.46	0.45	0.38	0.36	0.32	0.35	0.31	0.28	0.58	0.55	0.56	0.55
1.50	0.66	0.62	0.64	0.62	0.60	0.53	0.51	0.46	0.48	0.44	0.41	0.35	0.77	0.74	0.71	0.65
2.00	0.74	0.68	0.71	0.69	0.66	0.60	0.57	0.52	0.54	0.50	0.46	0.41	0.89	0.86	0.81	0.78
2.50	0.80	0.73	0.77	0.74	0.71	0.65	0.62	0.57	0.59	0.55	0.50	0.46	0.91	0.86	0.82	0.77
3.00	0.89	0.80	0.86	0.81	0.78	0.72	0.69	0.65	0.66	0.62	0.57	0.53	0.96	0.90	0.85	0.81
4.00	1.06	0.91	1.01	0.95	0.89	0.85	0.81	0.79	0.77	0.74	0.73	0.71	1.08	1.01	0.95	0.89
5.00	1.09	0.94	1.04	0.97	0.91	0.88	0.84	0.82	0.80	0.78	0.77	0.75	1.09	1.01	0.95	0.89

Ceiling mounted

Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cone	45.0	31679	29285	27958	27532	27958	29285
45.0	31679	29285	27958	27532	27958	29285	31679
50.0	27890	25547	23203	21938	21538	21938	23203
55.0	25547	23203	21938	21538	21938	23203	25547
60.0	22782	20492	19273	18890	19273	20492	22782
65.0	19518	17369	16244	15893	16244	17369	19518
70.0	15823	13912	12931	12627	12931	13912	15823
75.0	13804	11972	11050	10767	11050	11972	13804
80.0	12957	11058	10125	9842	10125	11058	12957
85.0	12233	10237	9285	9000	9285	10237	12233
90.0	10234	8356	7492	7236	7492	8356	10234

(cd/m²)

2021-01-25