

Shallow profile, aesthetically pleasing and simple to use.

CS LED SERIES CUBELITE



4" WIDE 4³/₄" DEEP SURFACE LUMINAIRE
4' LENGTH
LED LAMP

Smooth opal acrylic lens offers a diffused illumination. Ideal for corridor, stairwell, or vanity applications.

Project: _____
Location: _____
Catalog No: _____
Fixture Type: _____
Mfg: _____ Lamps: _____ Qty: _____
Notes: _____

Ordering Guide

Explanation of Catalog Number Example: **CSW48-2840YKAGZO**

Cubelite	Lamp/Fixture Length	Lumen Package	Color	Voltage	Driver Type	Lens
CSW	48					ZO
CSW = Surface Luminaire	48 = Nominal 48"	28 = 2800 Lumens Nominal 47 = 4700 Lumens Nominal	40 = 4000K 35 = 3500K	UNV = 120/277V 3 = 347V	LAG = LED Driver DZT = 0–10V Dimming	ZO = Opal Lens



Features

- Only 4 3/4" deep.
- Smooth opal acrylic diffuser shields LEDs from direct view and evenly distributes light.
- Delivers up to 4700 lm per 4' (nominal) length.
- Individual or continuous row mounting.
- Ideal for corridors, washrooms, storage areas, and stairwells.
- Can be used in conjunction with occupancy sensors
- Spring-loaded end cap.
- Long life LEDs provide 50,000 hours of maintenance free life (L₈₀).
- Fully enclosed wiring and LED diodes.

Specifications

Materials: Chassis parts are die-formed heavy gauge cold rolled steel.

Finish: Baked white acrylic enamel, phosphate undercoating.

Shielding: Opal acrylic diffuser.

Electrical: LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. For dimming options, consult your Philips Lighting representative. Predicted L₈₀ lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.

Labels: cETLus listed. Suitable for damp locations.

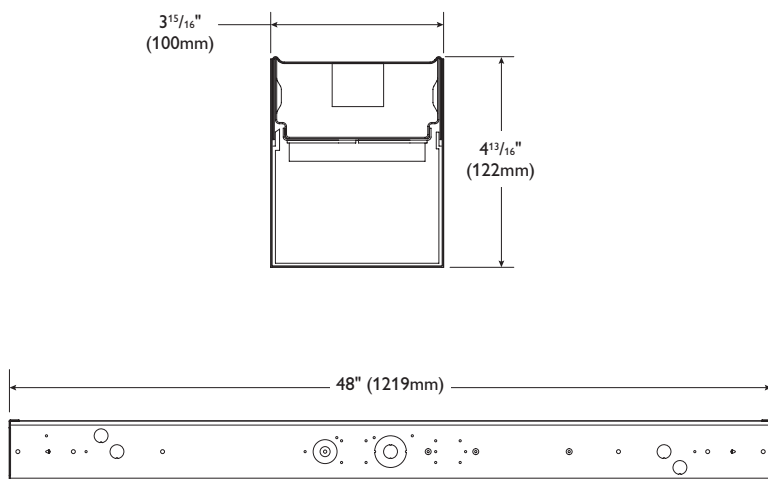
Options and Accessories

Electrical Wiring Options: Consult your Philips Lighting representative.

Continuous Row Mounting: Order luminaire coupler: **CSWCPL**

Emergency options: Consult your Philips Lighting representative.

Dimensions



CS LED SERIES CUBELITE

Performance

Model No. CSW48-2840ULAGZO

Lumen Package: 2800

Report Number¹: C12042

Catalog Number: CSW48-2840ULAGZO

Delivered Lumens: 2751

Color: 4000K

Input Watts: 31.0

Efficacy: 88.7 lm/w

Lamp: LED

Luminaire: Cubelite 4' Fixture with (ZO)

Opal Lens

CIE Type: Direct

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.5 1.5

Plane: 0 Deg. 90 Deg.

Luminous Length: 4.000 48.000

Candela Distribution

Angle	0.0	45.0	90.0	Zonal Lumens
0	504	504	504	
5	503	513	495	49
15	485	519	511	144
25	451	510	517	230
35	401	488	505	296
45	339	451	476	332
55	264	396	431	334
65	180	326	371	299
75	91	246	301	236
85	15	176	237	172
90	2	161	223	
95	2	159	219	150
105	2	155	211	141
115	3	143	196	122
125	3	125	175	98
135	3	104	150	71
145	4	80	119	45
155	4	53	83	23
165	4	27	44	8
175	4	7	11	1
180	5	5	5	

Coefficients of Utilization

Ceiling	80%			50%			30%			
Wall	70	50	30	50	30	10	50	30	10	
RCR	Zonal Cavity Method— Effective Floor Cavity Reflectance = 0.20									
Room Cavity Ratio	1	101	96	91	83	79	76	75	72	69
	2	91	83	76	71	66	61	64	60	56
	3	83	72	63	62	56	51	56	51	47
	4	76	64	55	55	48	43	50	44	40
	5	69	56	47	49	42	37	44	38	34
	6	64	50	41	44	37	31	40	34	29
	7	58	45	36	39	32	27	35	29	25
	8	54	40	32	35	28	23	32	26	22
	9	50	36	28	32	25	20	29	23	19
	10	46	33	25	29	22	18	27	21	17

¹Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

*Total efficiency.

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	3869.	5165.	5450.
55	3721.	5591.	6093.
65	3430.	6245.	7104.
75	2829.	7693.	9408.
85	1417.	16386.	22023.

Zonal Lumen Summary*

Zone	Lumens	% Luminaire
0-30	423	15.38
0-40	719	26.13
0-60	1385	50.34
0-90	2092	76.06
40-90	1374	49.93
60-90	708	25.72
90-180	659	23.94
0-180	2751	100.00

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Performance

Model No. CSW48-4740ULAGZO

Lumen Package: 4700

Report Number¹: C12045

Catalog Number: CSW48-4740ULAGZO

Delivered Lumens: 4700

Color: 4000K

Input Watts: 52.1

Efficacy: 90.2 lm/w

Lamp: LED

Luminaire: Cubelite 4' Fixture with (ZO)
Opal Lens

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.5 1.5

Plane: 0 Deg. 90 Deg.

Luminous Length: 4.000 48.000

Candela Distribution

Angle	0.0	45.0	90.0	Zonal Lumens
0	843	843	843	
5	841	858	830	82
15	811	868	860	241
25	753	856	872	386
35	670	821	856	497
45	566	760	811	561
55	441	669	739	565
65	300	554	639	510
75	151	422	523	406
85	25	305	417	298
90	2	281	392	
95	4	277	385	262
105	4	269	371	246
115	5	249	345	214
125	6	217	310	171
135	7	183	266	125
145	8	140	212	80
155	9	94	148	41
165	9	49	79	14
175	10	14	21	2
180	10	10	10	

Coefficients of Utilization

Ceiling	80%			50%			30%			
Wall	70	50	30	50	30	10	50	30	10	
RCR	Zonal Cavity Method— Effective Floor Cavity Reflectance = 0.20									
Room Cavity Ratio	1	101	96	91	82	79	76	74	71	69
	2	91	83	75	71	66	61	64	60	56
	3	83	72	63	62	56	50	56	51	46
	4	76	63	54	55	48	43	50	44	40
	5	69	56	47	49	41	36	44	38	34
	6	63	50	41	43	36	31	39	33	29
	7	58	44	36	39	31	26	35	29	24
	8	54	40	32	35	28	23	32	26	21
	9	50	36	28	32	25	20	29	23	19
	10	46	33	25	29	22	18	26	20	16

¹Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

*Total efficiency.

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	6461.	8711.	9290.
55	6212.	9456.	10441.
65	5721.	10611.	12257.
75	4709.	13169.	16386.
85	2334.	28301.	38736.

Zonal Lumen Summary*

Zone	Lumens	% Luminaire
0-30	709	15.09
0-40	1207	25.67
0-60	2333	49.63
0-90	3546	75.44
40-90	2339	49.76
60-90	1213	25.81
90-180	1155	24.56
0-180	4700	100.00



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www.philips.com/luminaires

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