

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2TG74L830-4-FS-02F-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33551.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 9/24/14
[MANUFAC] DAY-BRITE - CFI
[LUMCAT] 2TG74L830-4-FS-02F-UNV
[LUMINAIRE] 2X4 T-GRID TROFFER
[MORE] 4-LP 3.6 REV 1.0 3000K BOARDS 2-54W DRIVERS 3.9K RESISTORS 50%DF LENS
[LAMP] LED. LUMINAIRE OUTPUT = 7467 LMS
[TEST DATE] 9/24/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7467
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	91.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3875	3847	3789
55	3186	3091	3047
65	2557	2409	2483
75	2294	2173	2433
85	2507	2472	2893

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	3174.16	3174.16	3174.16	3174.16	3174.16	3174.16	3174.16	3174.16	3174.16	3174.16
2.5	3164.69	3164.03	3172.05	3175.61	3175.20	3175.61	3172.05	3164.03	3164.69	3164.03
5.0	3153.59	3153.12	3162.45	3166.19	3166.68	3166.19	3162.45	3153.12	3153.59	3153.12
7.5	3134.53	3133.20	3144.87	3148.27	3150.76	3148.27	3144.87	3133.20	3134.53	3133.20
10.0	3107.01	3106.21	3116.81	3125.05	3122.84	3125.05	3116.81	3106.21	3107.01	3106.21
12.5	3071.24	3072.92	3083.15	3087.00	3088.13	3087.00	3083.15	3072.92	3071.24	3072.92
15.0	3026.22	3029.91	3039.16	3041.64	3041.50	3041.64	3039.16	3029.91	3026.22	3029.91
17.5	2972.73	2977.08	2984.23	2984.37	2986.24	2984.37	2984.23	2977.08	2972.73	2977.08
20.0	2909.47	2913.31	2918.43	2918.32	2919.30	2918.32	2918.43	2913.31	2909.47	2913.31
22.5	2836.24	2840.55	2844.11	2843.31	2843.55	2843.31	2844.11	2840.55	2836.24	2840.55
25.0	2753.43	2756.88	2762.06	2757.07	2755.91	2757.07	2762.06	2756.88	2753.43	2756.88
27.5	2662.58	2664.31	2668.03	2659.28	2654.61	2659.28	2668.03	2664.31	2662.58	2664.31
30.0	2558.57	2561.61	2561.36	2550.77	2547.12	2550.77	2561.36	2561.61	2558.57	2561.61
32.5	2443.80	2447.90	2443.90	2430.89	2429.24	2430.89	2443.90	2447.90	2443.80	2447.90
35.0	2320.15	2325.35	2317.69	2304.74	2302.95	2304.74	2317.69	2325.35	2320.15	2325.35
37.5	2191.26	2188.57	2182.76	2169.56	2166.28	2169.56	2182.76	2188.57	2191.26	2188.57
40.0	2052.41	2048.33	2042.08	2024.49	2021.84	2024.49	2042.08	2048.33	2052.41	2048.33
42.5	1906.54	1903.37	1896.43	1873.86	1871.26	1873.86	1896.43	1903.37	1906.54	1903.37
45.0	1756.88	1754.12	1744.28	1719.98	1718.15	1719.98	1744.28	1754.12	1756.88	1754.12
47.5	1607.61	1600.42	1588.75	1564.13	1564.90	1564.13	1588.75	1600.42	1607.61	1600.42
50.0	1459.74	1447.91	1433.22	1410.50	1410.95	1410.50	1433.22	1447.91	1459.74	1447.91
52.5	1312.97	1300.03	1281.34	1260.93	1262.62	1260.93	1281.34	1300.03	1312.97	1300.03
55.0	1171.86	1157.03	1136.99	1118.60	1120.82	1118.60	1136.99	1157.03	1171.86	1157.03
57.5	1038.49	1020.52	999.93	985.84	989.66	985.84	999.93	1020.52	1038.49	1020.52
60.0	914.31	893.64	873.23	865.63	870.69	865.63	873.23	893.64	914.31	893.64
62.5	798.35	777.23	756.97	759.28	765.80	759.28	756.97	777.23	798.35	777.23
65.0	692.90	672.23	652.97	663.27	672.88	663.27	652.97	672.23	692.90	672.23
67.5	600.04	578.75	562.94	580.46	591.48	580.46	562.94	578.75	600.04	578.75
70.0	517.99	497.16	484.08	509.50	521.55	509.50	484.08	497.16	517.99	497.16
72.5	445.40	427.05	418.39	447.60	460.85	447.60	418.39	427.05	445.40	427.05
75.0	380.72	364.80	360.58	389.82	403.79	389.82	360.58	364.80	380.72	364.80
77.5	320.29	307.26	308.33	334.82	347.83	334.82	308.33	307.26	320.29	307.26
80.0	260.96	253.23	254.66	280.96	289.58	280.96	254.66	253.23	260.96	253.23
82.5	201.40	194.10	197.42	224.98	228.25	224.98	197.42	194.10	201.40	194.10
85.0	140.10	138.70	138.14	162.99	161.71	162.99	138.14	138.70	140.10	138.70
87.5	73.47	78.22	81.18	102.10	104.56	102.10	81.18	78.22	73.47	78.22
90.0	15.21	24.33	33.08	52.01	59.04	52.01	33.08	24.33	15.21	24.33
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	3174.16	3174.16	3174.16	3174.16	3174.16	3174.16	3174.16
2.5	3172.05	3175.61	3175.20	3175.61	3172.05	3164.03	3164.69
5.0	3162.45	3166.19	3166.68	3166.19	3162.45	3153.12	3153.59
7.5	3144.87	3148.27	3150.76	3148.27	3144.87	3133.20	3134.53
10.0	3116.81	3125.05	3122.84	3125.05	3116.81	3106.21	3107.01
12.5	3083.15	3087.00	3088.13	3087.00	3083.15	3072.92	3071.24
15.0	3039.16	3041.64	3041.50	3041.64	3039.16	3029.91	3026.22
17.5	2984.23	2984.37	2986.24	2984.37	2984.23	2977.08	2972.73
20.0	2918.43	2918.32	2919.30	2918.32	2918.43	2913.31	2909.47
22.5	2844.11	2843.31	2843.55	2843.31	2844.11	2840.55	2836.24
25.0	2762.06	2757.07	2755.91	2757.07	2762.06	2756.88	2753.43
27.5	2668.03	2659.28	2654.61	2659.28	2668.03	2664.31	2662.58
30.0	2561.36	2550.77	2547.12	2550.77	2561.36	2561.61	2558.57
32.5	2443.90	2430.89	2429.24	2430.89	2443.90	2447.90	2443.80
35.0	2317.69	2304.74	2302.95	2304.74	2317.69	2325.35	2320.15
37.5	2182.76	2169.56	2166.28	2169.56	2182.76	2188.57	2191.26
40.0	2042.08	2024.49	2021.84	2024.49	2042.08	2048.33	2052.41
42.5	1896.43	1873.86	1871.26	1873.86	1896.43	1903.37	1906.54
45.0	1744.28	1719.98	1718.15	1719.98	1744.28	1754.12	1756.88
47.5	1588.75	1564.13	1564.90	1564.13	1588.75	1600.42	1607.61
50.0	1433.22	1410.50	1410.95	1410.50	1433.22	1447.91	1459.74
52.5	1281.34	1260.93	1262.62	1260.93	1281.34	1300.03	1312.97
55.0	1136.99	1118.60	1120.82	1118.60	1136.99	1157.03	1171.86
57.5	999.93	985.84	989.66	985.84	999.93	1020.52	1038.49
60.0	873.23	865.63	870.69	865.63	873.23	893.64	914.31
62.5	756.97	759.28	765.80	759.28	756.97	777.23	798.35
65.0	652.97	663.27	672.88	663.27	652.97	672.23	692.90
67.5	562.94	580.46	591.48	580.46	562.94	578.75	600.04
70.0	484.08	509.50	521.55	509.50	484.08	497.16	517.99
72.5	418.39	447.60	460.85	447.60	418.39	427.05	445.40
75.0	360.58	389.82	403.79	389.82	360.58	364.80	380.72
77.5	308.33	334.82	347.83	334.82	308.33	307.26	320.29
80.0	254.66	280.96	289.58	280.96	254.66	253.23	260.96

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82.5	197.42	224.98	228.25	224.98	197.42	194.10	201.40
85.0	138.14	162.99	161.71	162.99	138.14	138.70	140.10
87.5	81.18	102.10	104.56	102.10	81.18	78.22	73.47
90.0	33.08	52.01	59.04	52.01	33.08	24.33	15.21
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1155.87	N.A.	15.50
0-30	2423.72	N.A.	32.50
0-40	3867.23	N.A.	51.80
0-60	6229.66	N.A.	83.40
0-80	7300.09	N.A.	97.80
0-90	7461.94	N.A.	99.90
10-90	7161.68	N.A.	95.90
20-40	2711.36	N.A.	36.30
20-50	4050.41	N.A.	54.20
40-70	3032.07	N.A.	40.60
60-80	1070.44	N.A.	14.30
70-80	400.79	N.A.	5.40
80-90	161.85	N.A.	2.20
90-110	5.02	N.A.	0.10
90-120	5.02	N.A.	0.10
90-130	5.02	N.A.	0.10
90-150	5.02	N.A.	0.10
90-180	5.02	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	7466.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	300.26
10-20	855.61
20-30	1267.85
30-40	1443.51
40-50	1339.05
50-60	1023.38
60-70	669.64
70-80	400.79
80-90	161.85
90-100	5.02
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

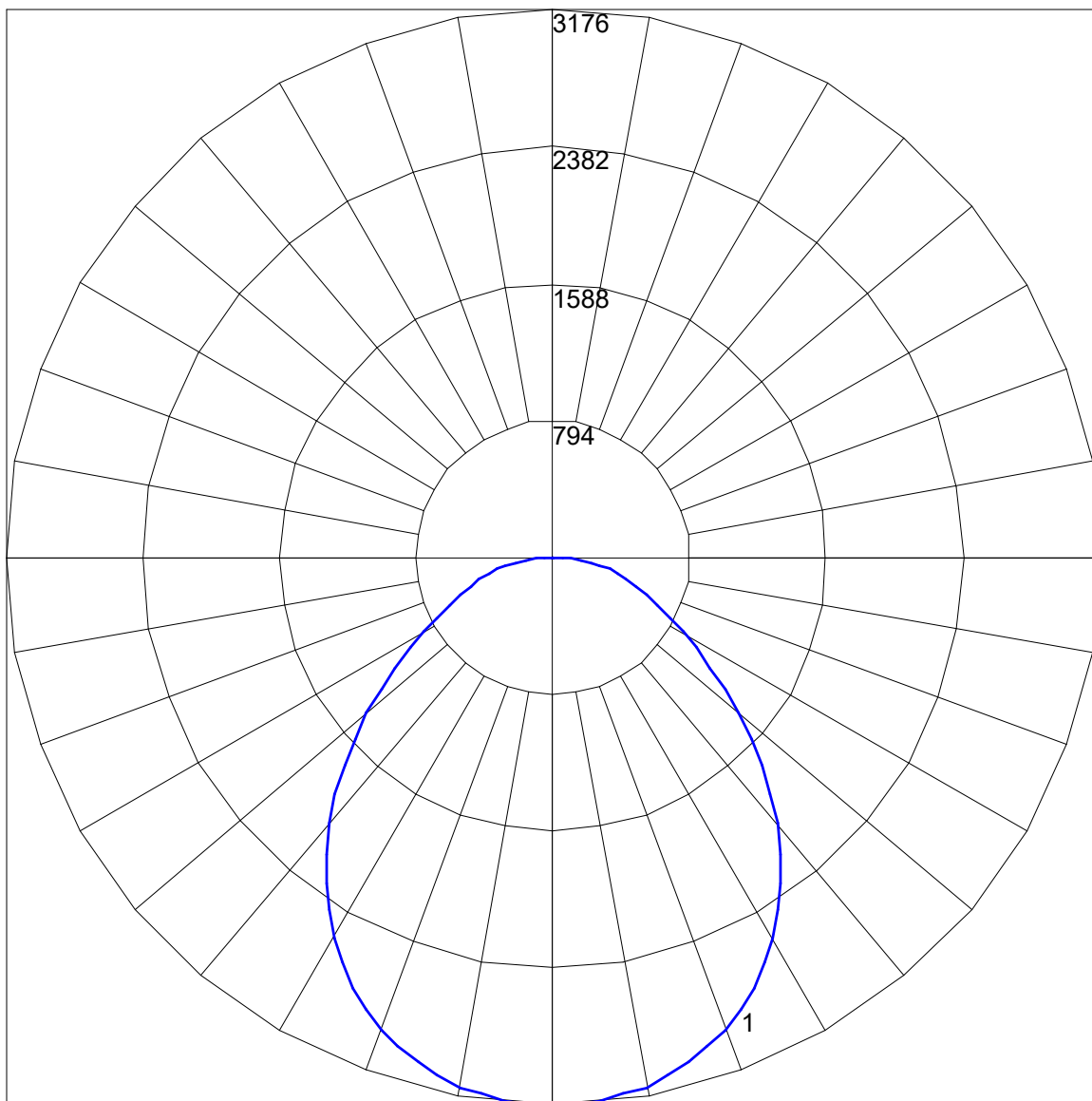
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

POLAR GRAPH



Maximum Candela = 3175.61 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)