

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-B-S-8-35-OPEN-ITL85122.010.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85122.010 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/03/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S16-LED-ID-DCO-4ft-3E-B-S-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 26.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 30.2 WATTS

[ABSOLUTE]LUMENS]3194

[OTHER]see www.finelite.com for source file ITL85122. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3194
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	26.5
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.57 ft
Luminous Width (90-270)	0.29 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3133	3102	3060
55	2955	2902	2872
65	2707	2656	2616
75	2293	2243	2210
85	1481	1530	1530

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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>
0.0	343.450	343.450	343.450	343.450	343.450
2.5	343.450	343.041	343.450	343.450	343.041
5.0	341.813	341.404	341.404	341.813	341.404
7.5	339.766	339.357	339.357	339.357	339.357
10.0	336.491	335.263	336.082	335.673	335.263
12.5	332.398	330.760	331.579	331.579	330.351
15.0	327.485	325.439	326.667	326.667	325.029
17.5	321.345	318.479	320.117	319.708	318.070
20.0	314.795	311.111	312.748	312.748	311.111
22.5	306.608	303.333	304.561	304.561	302.924
25.0	298.012	294.737	295.965	295.555	294.327
27.5	288.596	285.731	286.550	285.731	284.912
30.0	278.363	275.497	276.725	275.497	274.269
32.5	268.129	265.673	266.082	264.854	263.626
35.0	257.485	255.029	255.439	253.801	252.982
37.5	246.433	244.386	244.386	242.749	241.520
40.0	234.971	232.515	232.924	231.286	230.059
42.5	223.099	220.643	221.053	219.006	218.187
45.0	210.819	208.772	208.772	206.725	205.906
47.5	199.357	196.901	196.491	194.444	194.035
50.0	186.667	184.210	183.801	181.754	181.754
52.5	173.977	171.930	171.111	169.474	169.474
55.0	161.286	159.240	158.421	156.784	156.784
57.5	148.596	146.550	146.140	144.094	143.684
60.0	135.497	133.860	133.041	131.404	130.994
62.5	122.398	120.760	119.942	118.304	117.895
65.0	108.889	107.661	106.842	105.205	105.205
67.5	95.790	94.561	93.743	92.515	92.105
70.0	82.281	81.462	80.643	79.415	79.415
72.5	69.181	68.772	67.953	67.135	66.725
75.0	56.491	56.082	55.263	54.854	54.444
77.5	44.211	43.801	43.392	42.983	42.983
80.0	32.339	32.339	31.930	31.930	31.930
82.5	21.696	22.105	21.696	21.696	21.696
85.0	12.281	12.690	12.690	12.690	12.690
87.5	4.094	4.503	4.503	4.503	4.503
90.0	0.000	0.000	0.000	0.000	0.000
92.5	8.234	30.877	21.614	22.129	22.129
95.0	23.672	139.462	71.532	41.170	39.111
97.5	42.199	162.620	339.649	188.865	110.129
100.0	62.269	179.602	377.731	469.848	463.673
102.5	83.368	191.953	390.082	505.871	541.380
105.0	103.953	209.965	400.889	514.620	553.216
107.5	122.994	227.462	410.152	518.737	555.789
110.0	143.064	242.901	412.211	523.883	558.877
112.5	162.105	257.310	419.415	527.485	562.994
115.0	180.632	271.719	428.678	525.427	561.450
117.5	198.643	286.129	436.912	526.456	558.877
120.0	215.626	299.509	444.117	531.088	559.906
122.5	231.579	312.374	450.292	535.205	562.994
125.0	246.503	324.211	454.924	537.778	564.538
127.5	260.912	335.532	459.555	539.836	565.567
130.0	274.807	346.339	462.643	540.351	565.567
132.5	288.187	356.117	466.246	539.836	564.023

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-B-S-8-35-OPEN-ITL85122.010.IES****CANDELA TABULATION - (Cont.)**

135.0	300.023	364.865	469.333	538.292	560.936
137.5	311.345	372.585	471.392	535.719	557.848
140.0	322.667	379.789	472.936	533.146	553.216
142.5	332.959	385.965	473.450	530.058	548.585
145.0	343.252	391.626	473.450	526.456	543.439
147.5	352.000	396.772	472.936	522.339	537.778
150.0	360.234	399.860	470.363	516.164	530.573
152.5	367.953	402.947	466.760	509.988	523.368
155.0	374.643	405.521	462.643	502.269	514.105
157.5	380.819	407.064	457.497	493.006	504.327
160.0	386.479	408.094	451.836	482.713	493.006
162.5	391.111	408.094	444.632	471.392	480.655
165.0	395.228	408.094	437.427	459.555	466.760
167.5	398.316	407.579	429.708	447.719	454.409
170.0	400.889	407.064	422.503	435.368	440.515
172.5	402.947	407.064	415.813	424.561	427.649
175.0	404.491	406.035	410.152	415.298	416.327
177.5	406.035	406.550	407.579	408.608	408.608
180.0	406.035	406.035	406.035	406.035	406.035

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-B-S-8-35-OPEN-ITL85122.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	124.30	N.A.	3.90
0-30	260.39	N.A.	8.20
0-40	419.82	N.A.	13.10
0-60	722.11	N.A.	22.60
0-80	886.55	N.A.	27.80
0-90	901.49	N.A.	28.20
10-90	869.06	N.A.	27.20
20-40	295.51	N.A.	9.30
20-50	456.19	N.A.	14.30
40-70	407.90	N.A.	12.80
60-80	164.44	N.A.	5.10
70-80	58.83	N.A.	1.80
80-90	14.94	N.A.	0.50
90-110	501.97	N.A.	15.70
90-120	898.07	N.A.	28.10
90-130	1283.72	N.A.	40.20
90-150	1919.95	N.A.	60.10
90-180	2292.65	N.A.	71.80
110-180	1790.69	N.A.	56.10
0-180	3194.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.43
10-20	91.87
20-30	136.09
30-40	159.43
40-50	160.67
50-60	141.62
60-70	105.61
70-80	58.83
80-90	14.94
90-100	121.32
100-110	380.65
110-120	396.11
120-130	385.65
130-140	348.47
140-150	287.76
150-160	209.83
160-170	123.33
170-180	39.55

IES INDOOR REPORT

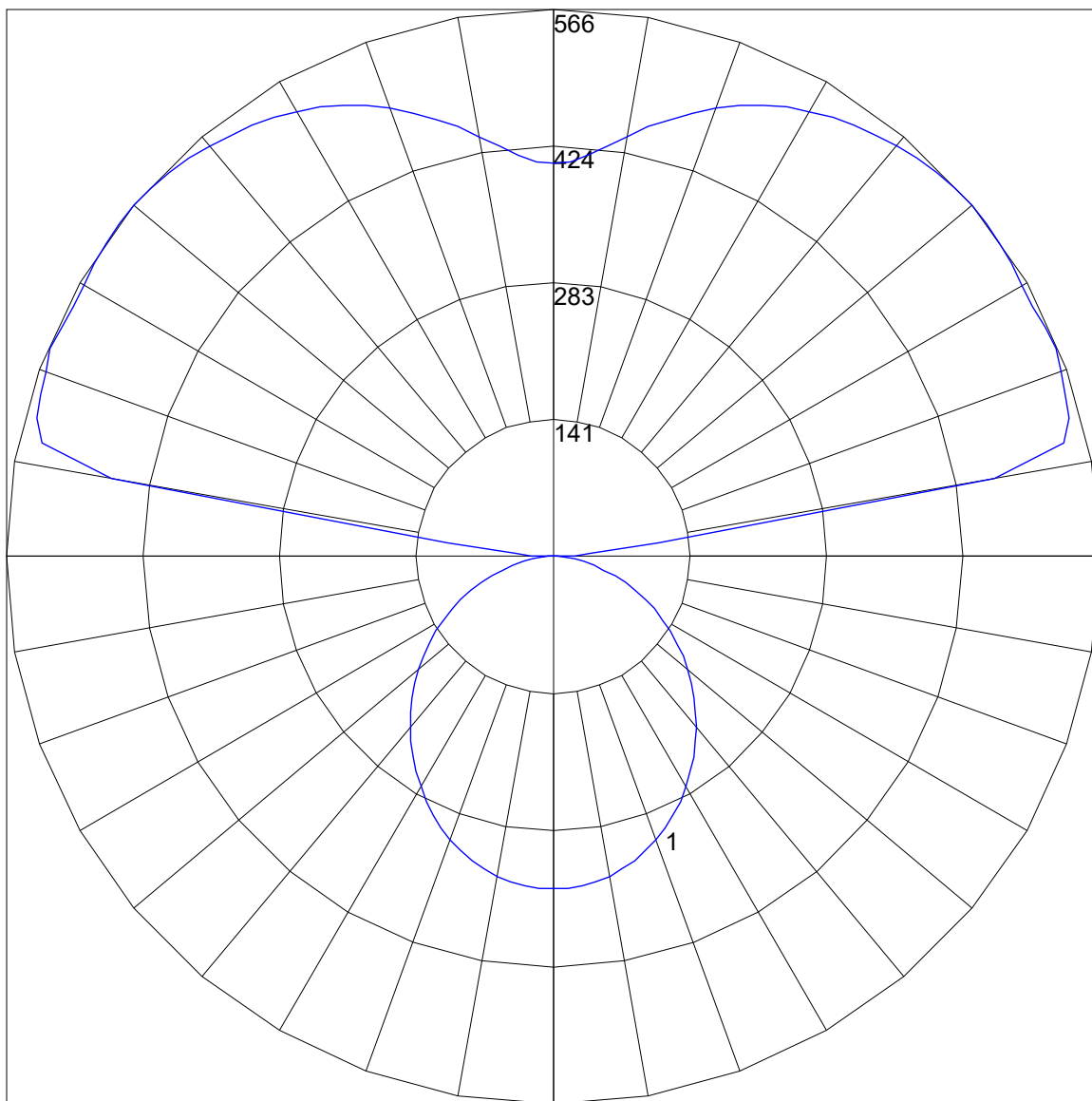
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	12
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

POLAR GRAPH



Maximum Candela = 565.567 Located At Horizontal Angle = 90, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)