

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 : S12-LED-ID-DCO-4FT-3E-B-H-8-35-OPEN-ITL85163.011.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85163.011 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/11/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S12-LED-ID-DCO-4ft-3E-B-H-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 33.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 37.6 WATTS

[ABSOLUTE]LUMENS]4172

[OTHER]see www.finelite.com for source file ITL85163. 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	4172
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	33.9
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 w/Sides
Luminous Length (0-180)	3.32 ft
Luminous Width (90-270)	0.36 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4488	4254	4191
55	4193	3888	3818
65	3795	3441	3353
75	3144	2772	2789
85	1860	1881	2161

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-B-H-8-35-OPEN-ITL85163.011.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	586.445	586.444	586.444	586.444	586.444
2.5	585.667	585.667	585.667	585.667	585.667
5.0	583.333	583.333	583.333	583.333	583.333
7.5	579.444	579.444	579.444	579.444	580.222
10.0	573.222	572.444	574.000	574.000	574.000
12.5	567.000	565.444	567.778	567.778	567.000
15.0	558.444	555.333	558.444	559.222	558.444
17.5	548.333	545.222	548.333	549.111	548.333
20.0	536.667	532.778	536.667	537.444	537.444
22.5	522.667	518.778	523.444	524.222	523.444
25.0	507.889	504.778	508.667	510.222	509.445
27.5	493.111	489.222	493.889	494.667	494.667
30.0	476.000	472.889	476.778	477.555	476.778
32.5	458.889	455.778	459.667	461.222	459.667
35.0	441.000	437.889	441.778	442.555	441.778
37.5	420.778	418.445	422.333	423.111	422.333
40.0	401.333	399.000	402.111	403.667	402.889
42.5	381.889	379.555	381.889	384.222	382.667
45.0	360.889	359.333	361.667	363.222	362.445
47.5	339.889	338.333	340.667	341.445	340.667
50.0	317.333	316.555	319.667	320.445	319.667
52.5	296.333	295.555	297.111	298.667	298.667
55.0	274.555	273.778	275.333	276.889	276.889
57.5	252.000	252.000	254.333	255.111	255.111
60.0	230.222	229.444	231.778	233.333	233.333
62.5	206.889	207.667	209.222	210.778	211.556
65.0	184.333	185.111	187.444	188.222	189.000
67.5	161.778	162.556	164.889	166.444	166.444
70.0	139.222	140.778	143.889	144.667	146.222
72.5	116.667	119.000	122.111	124.444	126.778
75.0	94.889	98.000	101.111	105.000	107.333
77.5	73.889	77.000	82.444	86.333	87.889
80.0	53.667	57.556	63.778	68.444	70.000
82.5	35.778	39.667	46.667	52.889	55.222
85.0	20.222	24.889	32.667	39.667	42.000
87.5	7.000	12.444	21.778	28.000	30.333
90.0	0.000	4.667	12.444	18.667	21.000
92.5	13.380	180.117	353.029	405.521	358.690
95.0	27.790	213.053	405.521	525.427	560.936
97.5	43.743	229.520	428.164	548.585	588.725
100.0	60.725	247.532	439.485	558.877	599.018
102.5	77.708	250.105	444.117	561.450	601.591
105.0	95.205	256.795	445.661	559.392	597.988
107.5	113.216	265.029	450.807	554.760	591.813
110.0	132.257	273.778	445.661	551.673	585.638
112.5	149.754	284.585	443.602	553.216	583.579
115.0	167.251	295.906	443.602	544.468	581.520
117.5	185.263	308.257	444.117	538.807	570.713
120.0	202.760	322.152	446.690	535.719	565.567
122.5	220.257	336.047	449.778	532.632	560.936
125.0	236.725	349.942	452.865	530.573	556.819
127.5	254.737	363.322	456.983	529.544	553.731
130.0	270.175	375.673	461.099	528.000	550.643
132.5	286.129	385.965	466.246	526.971	548.070

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-B-H-8-35-OPEN-ITL85163.011.IES****CANDELA TABULATION - (Cont.)**

135.0	301.053	393.684	471.392	526.456	546.012
137.5	315.462	399.860	477.053	525.942	543.439
140.0	329.871	405.521	483.743	525.942	541.380
142.5	343.252	410.152	488.889	526.456	539.836
145.0	355.602	413.240	494.035	527.485	538.292
147.5	367.439	415.298	496.608	529.029	538.292
150.0	378.246	417.357	495.579	530.058	538.292
152.5	388.538	418.901	491.977	529.544	537.778
155.0	397.801	421.474	487.345	524.398	535.205
157.5	406.035	424.561	480.140	516.164	528.000
160.0	413.240	427.135	471.906	505.871	517.193
162.5	419.930	430.222	463.158	493.006	504.327
165.0	425.076	432.281	454.924	478.082	488.374
167.5	429.708	434.854	449.263	463.673	471.906
170.0	433.310	436.398	445.146	453.380	458.526
172.5	435.883	437.942	442.573	447.205	449.778
175.0	437.942	439.485	441.029	443.088	444.117
177.5	439.485	440.000	440.000	441.029	441.029
180.0	440.000	440.000	440.000	440.000	440.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-B-H-8-35-OPEN-ITL85163.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	212.68	N.A.	5.10
0-30	446.70	N.A.	10.70
0-40	722.20	N.A.	17.30
0-60	1247.2	N.A.	29.90
0-80	1539.76	N.A.	36.90
0-90	1576.71	N.A.	37.80
10-90	1521.33	N.A.	36.50
20-40	509.52	N.A.	12.20
20-50	788.20	N.A.	18.90
40-70	710.03	N.A.	17.00
60-80	292.56	N.A.	7.00
70-80	107.53	N.A.	2.60
80-90	36.95	N.A.	0.90
90-110	758.63	N.A.	18.20
90-120	1170.17	N.A.	28.00
90-130	1558.3	N.A.	37.30
90-150	2204.38	N.A.	52.80
90-180	2595.49	N.A.	62.20
110-180	1836.86	N.A.	44.00
0-180	4172.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.38
10-20	157.30
20-30	234.02
30-40	275.50
40-50	278.68
50-60	246.33
60-70	185.03
70-80	107.53
80-90	36.95
90-100	333.54
100-110	425.08
110-120	411.54
120-130	388.13
130-140	351.05
140-150	295.04
150-160	219.30
160-170	129.57
170-180	42.24

IES INDOOR REPORT

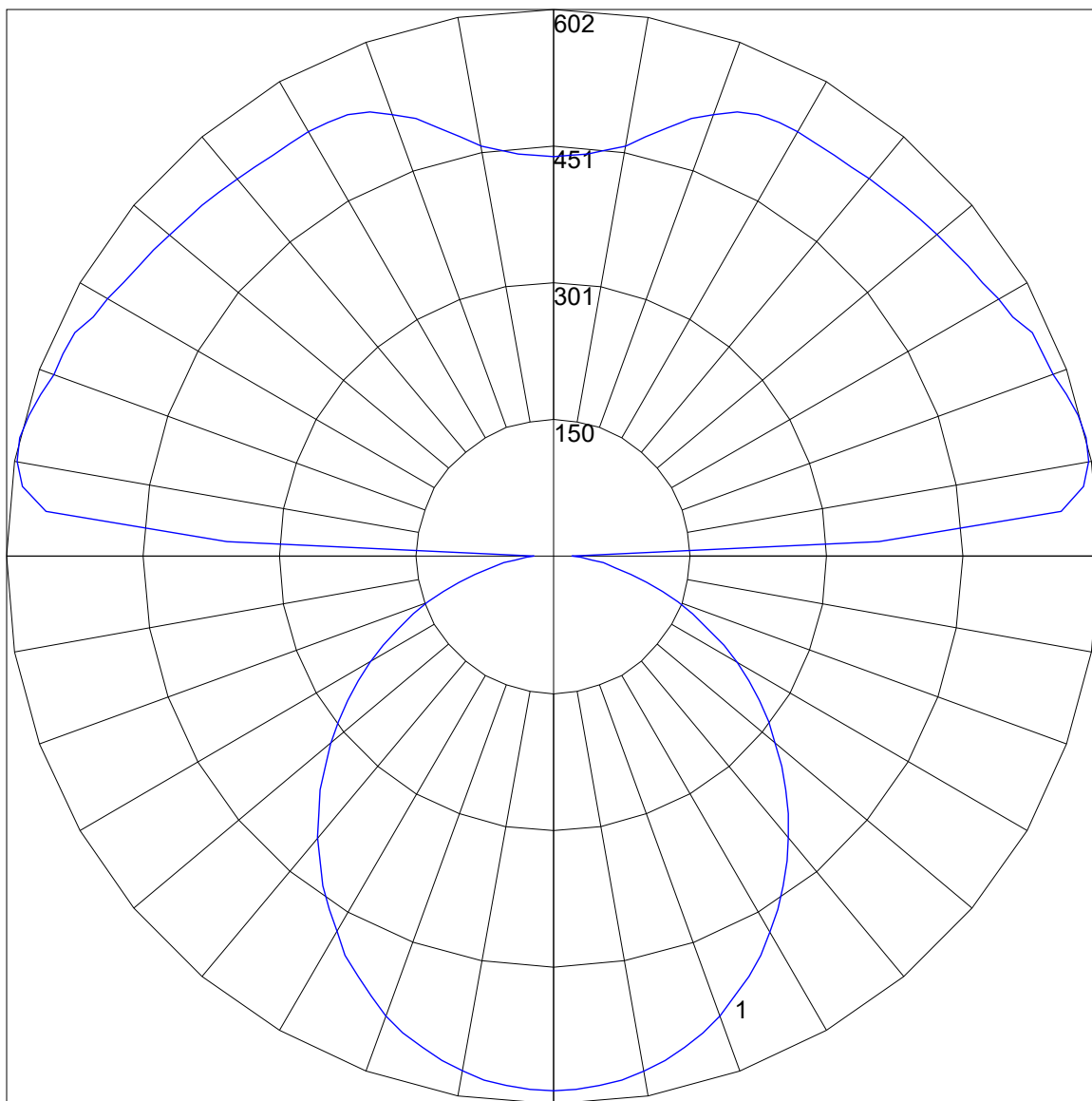
PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-B-H-8-35-OPEN-ITL85163.011.IES

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	83	86	82	79	76	67	65	62	53	51	50	39	39	38	32
2	86	79	73	68	78	72	67	62	58	55	52	46	44	41	35	33	32	26
3	79	69	62	56	71	63	57	52	51	47	43	41	38	35	31	29	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	20	18	14
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	19	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	20	17	21	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 601.591 Located At Horizontal Angle = 90, Vertical Angle = 102.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)