

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-H-V-8-35-OPEN-ITL85163.009.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85163.009 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-H-V-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 48.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 51.5 WATTS

[ABSOLUTE]LUMENS]5950

[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	5950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	48.5
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 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	5771	5469	5388
55	5391	4998	4909
65	4880	4424	4311
75	4042	3564	3586
85	2391	2418	2778

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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	754.000	754.000	754.000	754.000	754.000
2.5	753.000	753.000	753.000	753.000	753.000
5.0	750.000	750.000	750.000	750.000	750.000
7.5	745.000	745.000	745.000	745.000	746.000
10.0	737.000	736.000	738.000	738.000	738.000
12.5	729.000	727.000	730.000	730.000	729.000
15.0	718.000	714.000	718.000	719.000	718.000
17.5	705.000	701.000	705.000	706.000	705.000
20.0	690.000	685.000	690.000	691.000	691.000
22.5	672.000	667.000	673.000	674.000	673.000
25.0	653.000	649.000	654.000	656.000	655.000
27.5	634.000	629.000	635.000	636.000	636.000
30.0	612.000	608.000	613.000	614.000	613.000
32.5	590.000	586.000	591.000	593.000	591.000
35.0	567.000	563.000	568.000	569.000	568.000
37.5	541.000	538.000	543.000	544.000	543.000
40.0	516.000	513.000	517.000	519.000	518.000
42.5	491.000	488.000	491.000	494.000	492.000
45.0	464.000	462.000	465.000	467.000	466.000
47.5	437.000	435.000	438.000	439.000	438.000
50.0	408.000	407.000	411.000	412.000	411.000
52.5	381.000	380.000	382.000	384.000	384.000
55.0	353.000	352.000	354.000	356.000	356.000
57.5	324.000	324.000	327.000	328.000	328.000
60.0	296.000	295.000	298.000	300.000	300.000
62.5	266.000	267.000	269.000	271.000	272.000
65.0	237.000	238.000	241.000	242.000	243.000
67.5	208.000	209.000	212.000	214.000	214.000
70.0	179.000	181.000	185.000	186.000	188.000
72.5	150.000	153.000	157.000	160.000	163.000
75.0	122.000	126.000	130.000	135.000	138.000
77.5	95.000	99.000	106.000	111.000	113.000
80.0	69.000	74.000	82.000	88.000	90.000
82.5	46.000	51.000	60.000	68.000	71.000
85.0	26.000	32.000	42.000	51.000	54.000
87.5	9.000	16.000	28.000	36.000	39.000
90.0	0.000	6.000	16.000	24.000	27.000
92.5	20.222	272.222	533.556	612.889	542.111
95.0	42.000	322.000	612.889	794.111	847.778
97.5	66.111	346.889	647.111	829.111	889.778
100.0	91.778	374.111	664.222	844.667	905.333
102.5	117.444	378.000	671.222	848.556	909.222
105.0	143.889	388.111	673.556	845.444	903.778
107.5	171.111	400.555	681.333	838.444	894.444
110.0	199.889	413.778	673.556	833.778	885.111
112.5	226.333	430.111	670.444	836.111	882.000
115.0	252.778	447.222	670.444	822.889	878.889
117.5	280.000	465.889	671.222	814.333	862.556
120.0	306.445	486.889	675.111	809.667	854.778
122.5	332.889	507.889	679.778	805.000	847.778
125.0	357.778	528.889	684.444	801.889	841.556
127.5	385.000	549.111	690.667	800.333	836.889
130.0	408.333	567.778	696.889	798.000	832.222
132.5	432.445	583.333	704.667	796.444	828.333

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-H-V-8-35-OPEN-ITL85163.009.IES****CANDELA TABULATION - (Cont.)**

135.0	455.000	595.000	712.444	795.667	825.222
137.5	476.778	604.333	721.000	794.889	821.333
140.0	498.555	612.889	731.111	794.889	818.222
142.5	518.778	619.889	738.889	795.667	815.889
145.0	537.444	624.556	746.667	797.222	813.556
147.5	555.333	627.667	750.556	799.556	813.556
150.0	571.667	630.778	749.000	801.111	813.556
152.5	587.222	633.111	743.556	800.333	812.778
155.0	601.222	637.000	736.556	792.556	808.889
157.5	613.667	641.667	725.667	780.111	798.000
160.0	624.556	645.556	713.222	764.556	781.667
162.5	634.667	650.222	700.000	745.111	762.222
165.0	642.444	653.333	687.556	722.556	738.111
167.5	649.444	657.222	679.000	700.778	713.222
170.0	654.889	659.556	672.778	685.222	693.000
172.5	658.778	661.889	668.889	675.889	679.778
175.0	661.889	664.222	666.556	669.667	671.222
177.5	664.222	665.000	665.000	666.556	666.556
180.0	665.000	665.000	665.000	665.000	665.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-H-V-8-35-OPEN-ITL85163.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	273.44	N.A.	4.60
0-30	574.32	N.A.	9.70
0-40	928.54	N.A.	15.60
0-60	1603.55	N.A.	27.00
0-80	1979.69	N.A.	33.30
0-90	2027.2	N.A.	34.10
10-90	1956.00	N.A.	32.90
20-40	655.10	N.A.	11.00
20-50	1013.4	N.A.	17.00
40-70	912.90	N.A.	15.30
60-80	376.15	N.A.	6.30
70-80	138.25	N.A.	2.30
80-90	47.51	N.A.	0.80
90-110	1146.2	N.A.	19.30
90-120	1768.19	N.A.	29.70
90-130	2354.8	N.A.	39.60
90-150	3331.27	N.A.	56.00
90-180	3922.37	N.A.	65.90
110-180	2776.17	N.A.	46.70
0-180	5949.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.20
10-20	202.24
20-30	300.88
30-40	354.22
40-50	358.30
50-60	316.71
60-70	237.89
70-80	138.25
80-90	47.51
90-100	503.75
100-110	642.45
110-120	621.99
120-130	586.60
130-140	530.56
140-150	445.91
150-160	331.44
160-170	195.83
170-180	63.83

IES INDOOR REPORT

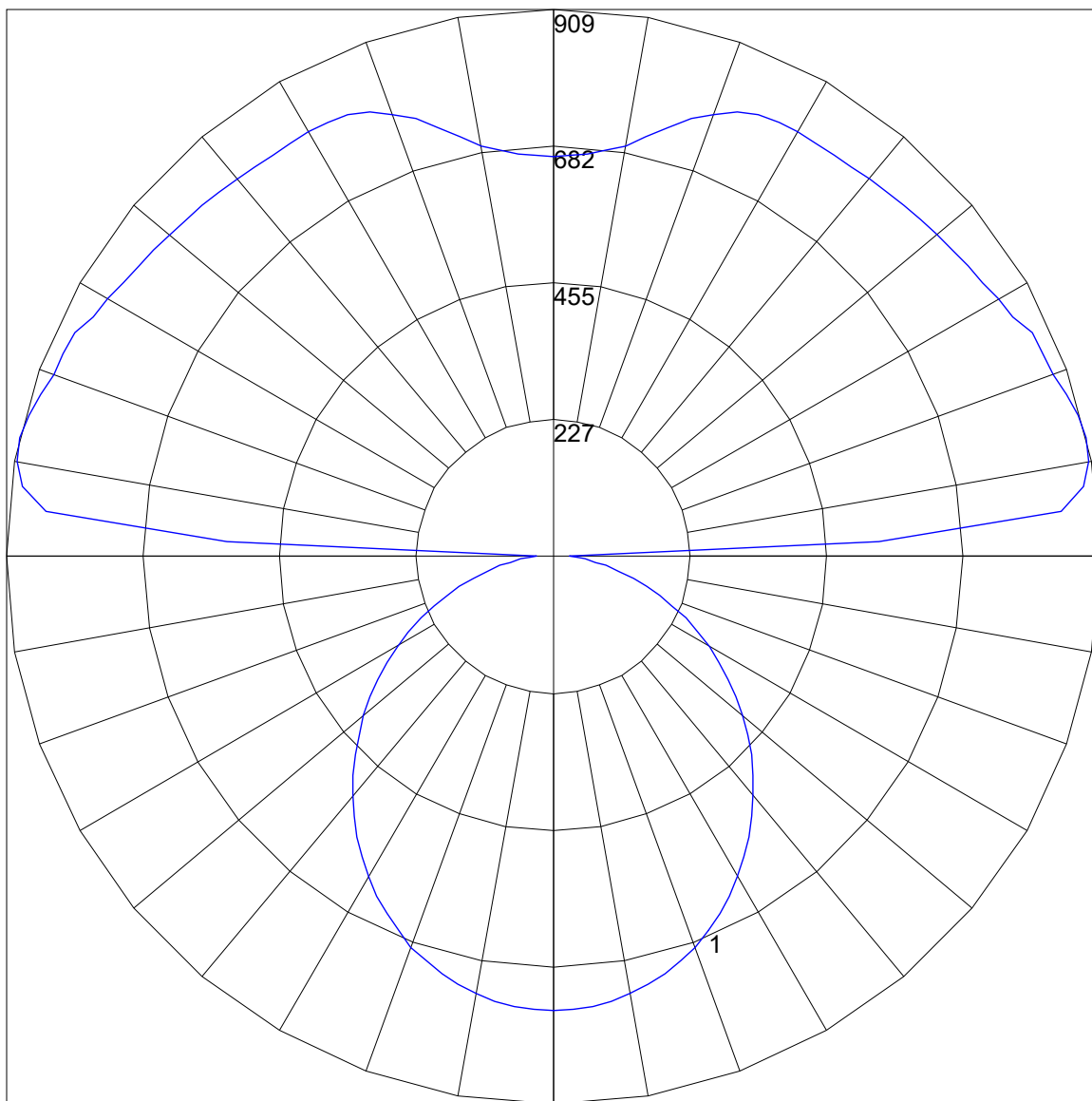
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	36	35	28
2	86	78	72	67	77	71	66	61	57	53	50	44	42	39	32	31	29	24
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	48	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	23	20	18	15
6	60	48	40	35	54	44	37	32	36	30	27	28	24	21	21	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	22	19	19	16	14	12
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	16	19	16	13	15	12	10	8

POLAR GRAPH



Maximum Candela = 909.222 Located At Horizontal Angle = 90, Vertical Angle = 102.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)