

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-V-H-8-35-OPEN-ITL85122.006.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85122.006 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-V-H-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 52.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 54.9 WATTS

[ABSOLUTE]LUMENS]6168

[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	6168
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	52.2
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	5952	5894	5813
55	5614	5514	5457
65	5144	5047	4970
75	4357	4263	4199
85	2813	2907	2907

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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	652.556	652.556	652.556	652.556	652.556
2.5	652.556	651.778	652.556	652.556	651.778
5.0	649.444	648.667	648.667	649.444	648.667
7.5	645.556	644.778	644.778	644.778	644.778
10.0	639.333	637.000	638.556	637.778	637.000
12.5	631.556	628.444	630.000	630.000	627.667
15.0	622.222	618.333	620.667	620.667	617.556
17.5	610.556	605.111	608.222	607.444	604.333
20.0	598.111	591.111	594.222	594.222	591.111
22.5	582.556	576.333	578.667	578.667	575.556
25.0	566.222	560.000	562.333	561.556	559.222
27.5	548.333	542.889	544.444	542.889	541.333
30.0	528.889	523.444	525.778	523.444	521.111
32.5	509.445	504.778	505.555	503.222	500.889
35.0	489.222	484.555	485.333	482.222	480.667
37.5	468.222	464.333	464.333	461.222	458.889
40.0	446.445	441.778	442.555	439.445	437.111
42.5	423.889	419.222	420.000	416.111	414.555
45.0	400.555	396.667	396.667	392.778	391.222
47.5	378.778	374.111	373.333	369.445	368.667
50.0	354.667	350.000	349.222	345.333	345.333
52.5	330.555	326.667	325.111	322.000	322.000
55.0	306.445	302.555	301.000	297.889	297.889
57.5	282.333	278.445	277.667	273.778	273.000
60.0	257.445	254.333	252.778	249.667	248.889
62.5	232.556	229.444	227.889	224.778	224.000
65.0	206.889	204.556	203.000	199.889	199.889
67.5	182.000	179.667	178.111	175.778	175.000
70.0	156.333	154.778	153.222	150.889	150.889
72.5	131.444	130.667	129.111	127.556	126.778
75.0	107.333	106.556	105.000	104.222	103.444
77.5	84.000	83.222	82.444	81.667	81.667
80.0	61.444	61.444	60.667	60.667	60.667
82.5	41.222	42.000	41.222	41.222	41.222
85.0	23.333	24.111	24.111	24.111	24.111
87.5	7.778	8.556	8.556	8.556	8.556
90.0	0.000	0.000	0.000	0.000	0.000
92.5	16.000	60.000	42.000	43.000	43.000
95.0	46.000	271.000	139.000	80.000	76.000
97.5	82.000	316.000	660.000	367.000	214.000
100.0	121.000	349.000	734.000	913.000	901.000
102.5	162.000	373.000	758.000	983.000	1052.000
105.0	202.000	408.000	779.000	1000.000	1075.000
107.5	239.000	442.000	797.000	1008.000	1080.000
110.0	278.000	472.000	801.000	1018.000	1086.000
112.5	315.000	500.000	815.000	1025.000	1094.000
115.0	351.000	528.000	833.000	1021.000	1091.000
117.5	386.000	556.000	849.000	1023.000	1086.000
120.0	419.000	582.000	863.000	1032.000	1088.000
122.5	450.000	607.000	875.000	1040.000	1094.000
125.0	479.000	630.000	884.000	1045.000	1097.000
127.5	507.000	652.000	893.000	1049.000	1099.000
130.0	534.000	673.000	899.000	1050.000	1099.000
132.5	560.000	692.000	906.000	1049.000	1096.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-V-H-8-35-OPEN-ITL85122.006.IES****CANDELA TABULATION - (Cont.)**

135.0	583.000	709.000	912.000	1046.000	1090.000
137.5	605.000	724.000	916.000	1041.000	1084.000
140.0	627.000	738.000	919.000	1036.000	1075.000
142.5	647.000	750.000	920.000	1030.000	1066.000
145.0	667.000	761.000	920.000	1023.000	1056.000
147.5	684.000	771.000	919.000	1015.000	1045.000
150.0	700.000	777.000	914.000	1003.000	1031.000
152.5	715.000	783.000	907.000	991.000	1017.000
155.0	728.000	788.000	899.000	976.000	999.000
157.5	740.000	791.000	889.000	958.000	980.000
160.0	751.000	793.000	878.000	938.000	958.000
162.5	760.000	793.000	864.000	916.000	934.000
165.0	768.000	793.000	850.000	893.000	907.000
167.5	774.000	792.000	835.000	870.000	883.000
170.0	779.000	791.000	821.000	846.000	856.000
172.5	783.000	791.000	808.000	825.000	831.000
175.0	786.000	789.000	797.000	807.000	809.000
177.5	789.000	790.000	792.000	794.000	794.000
180.0	789.000	789.000	789.000	789.000	789.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-V-H-8-35-OPEN-ITL85122.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	236.17	N.A.	3.80
0-30	494.74	N.A.	8.00
0-40	797.65	N.A.	12.90
0-60	1372.01	N.A.	22.20
0-80	1684.44	N.A.	27.30
0-90	1712.83	N.A.	27.80
10-90	1651.21	N.A.	26.80
20-40	561.48	N.A.	9.10
20-50	866.76	N.A.	14.10
40-70	775.02	N.A.	12.60
60-80	312.43	N.A.	5.10
70-80	111.78	N.A.	1.80
80-90	28.38	N.A.	0.50
90-110	975.41	N.A.	15.80
90-120	1745.12	N.A.	28.30
90-130	2494.51	N.A.	40.40
90-150	3730.81	N.A.	60.50
90-180	4455.04	N.A.	72.20
110-180	3479.63	N.A.	56.40
0-180	6167.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.62
10-20	174.55
20-30	258.57
30-40	302.91
40-50	305.28
50-60	269.08
60-70	200.66
70-80	111.78
80-90	28.38
90-100	235.75
100-110	739.67
110-120	769.71
120-130	749.39
130-140	677.14
140-150	559.16
150-160	407.74
160-170	239.65
170-180	76.85

IES INDOOR REPORT

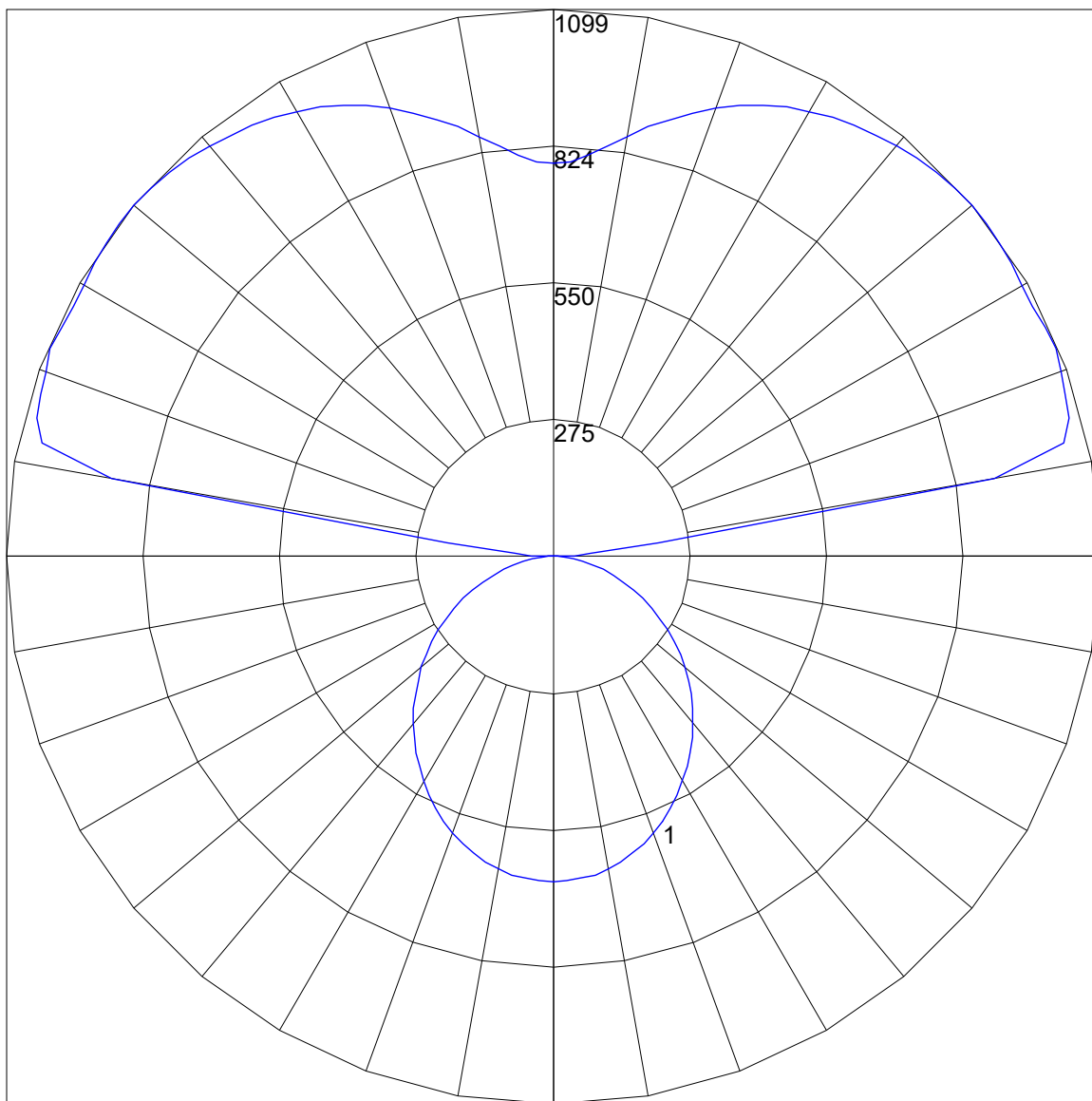
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	76	73	62	60	58	46	45	44	32	31	30	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	28	26	25	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	21	17
4	70	60	52	47	63	54	47	42	42	38	34	32	29	26	22	20	18	14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	23	20	18	16	12
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	25	21	17	19	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 = 1099 Located At Horizontal Angle = 90, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)