

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-S-V-8-35-OPEN-ITL85122.015.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85122.015 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-S-V-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 34.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 37.8 WATTS

[ABSOLUTE]LUMENS]4026

[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	4026
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	General Diffuse
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	7652	7578	7474
55	7217	7089	7016
65	6613	6489	6389
75	5602	5480	5399
85	3617	3737	3737

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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	839.000	839.000	839.000	839.000	839.000
2.5	839.000	838.000	839.000	839.000	838.000
5.0	835.000	834.000	834.000	835.000	834.000
7.5	830.000	829.000	829.000	829.000	829.000
10.0	822.000	819.000	821.000	820.000	819.000
12.5	812.000	808.000	810.000	810.000	807.000
15.0	800.000	795.000	798.000	798.000	794.000
17.5	785.000	778.000	782.000	781.000	777.000
20.0	769.000	760.000	764.000	764.000	760.000
22.5	749.000	741.000	744.000	744.000	740.000
25.0	728.000	720.000	723.000	722.000	719.000
27.5	705.000	698.000	700.000	698.000	696.000
30.0	680.000	673.000	676.000	673.000	670.000
32.5	655.000	649.000	650.000	647.000	644.000
35.0	629.000	623.000	624.000	620.000	618.000
37.5	602.000	597.000	597.000	593.000	590.000
40.0	574.000	568.000	569.000	565.000	562.000
42.5	545.000	539.000	540.000	535.000	533.000
45.0	515.000	510.000	510.000	505.000	503.000
47.5	487.000	481.000	480.000	475.000	474.000
50.0	456.000	450.000	449.000	444.000	444.000
52.5	425.000	420.000	418.000	414.000	414.000
55.0	394.000	389.000	387.000	383.000	383.000
57.5	363.000	358.000	357.000	352.000	351.000
60.0	331.000	327.000	325.000	321.000	320.000
62.5	299.000	295.000	293.000	289.000	288.000
65.0	266.000	263.000	261.000	257.000	257.000
67.5	234.000	231.000	229.000	226.000	225.000
70.0	201.000	199.000	197.000	194.000	194.000
72.5	169.000	168.000	166.000	164.000	163.000
75.0	138.000	137.000	135.000	134.000	133.000
77.5	108.000	107.000	106.000	105.000	105.000
80.0	79.000	79.000	78.000	78.000	78.000
82.5	53.000	54.000	53.000	53.000	53.000
85.0	30.000	31.000	31.000	31.000	31.000
87.5	10.000	11.000	11.000	11.000	11.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	6.550	24.561	17.193	17.602	17.602
95.0	18.830	110.936	56.901	32.748	31.111
97.5	33.567	129.357	270.175	150.234	87.602
100.0	49.532	142.865	300.468	373.743	368.830
102.5	66.316	152.690	310.292	402.398	430.643
105.0	82.690	167.018	318.889	409.357	440.058
107.5	97.836	180.936	326.257	412.632	442.105
110.0	113.801	193.216	327.895	416.725	444.561
112.5	128.947	204.678	333.626	419.591	447.836
115.0	143.684	216.140	340.994	417.953	446.608
117.5	158.012	227.602	347.544	418.772	444.561
120.0	171.520	238.246	353.275	422.456	445.380
122.5	184.210	248.480	358.187	425.731	447.836
125.0	196.082	257.895	361.871	427.778	449.064
127.5	207.544	266.901	365.555	429.415	449.883
130.0	218.596	275.497	368.012	429.825	449.883
132.5	229.240	283.275	370.877	429.415	448.655

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-S-V-8-35-OPEN-ITL85122.015.IES****CANDELA TABULATION - (Cont.)**

135.0	238.655	290.234	373.333	428.187	446.199
137.5	247.661	296.374	374.971	426.140	443.743
140.0	256.667	302.105	376.199	424.094	440.058
142.5	264.854	307.017	376.608	421.637	436.374
145.0	273.041	311.521	376.608	418.772	432.281
147.5	280.000	315.614	376.199	415.497	427.778
150.0	286.550	318.070	374.152	410.585	422.047
152.5	292.690	320.526	371.287	405.673	416.316
155.0	298.012	322.573	368.012	399.532	408.947
157.5	302.924	323.801	363.918	392.164	401.170
160.0	307.427	324.620	359.415	383.977	392.164
162.5	311.111	324.620	353.684	374.971	382.339
165.0	314.386	324.620	347.953	365.555	371.287
167.5	316.842	324.211	341.813	356.140	361.462
170.0	318.889	323.801	336.082	346.316	350.409
172.5	320.526	323.801	330.760	337.719	340.175
175.0	321.754	322.983	326.257	330.351	331.170
177.5	322.983	323.392	324.211	325.029	325.029
180.0	322.983	322.983	322.983	322.983	322.983

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-S-V-8-35-OPEN-ITL85122.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	303.65	N.A.	7.50
0-30	636.09	N.A.	15.80
0-40	1025.55	N.A.	25.50
0-60	1764.01	N.A.	43.80
0-80	2165.71	N.A.	53.80
0-90	2202.2	N.A.	54.70
10-90	2122.98	N.A.	52.70
20-40	721.90	N.A.	17.90
20-50	1114.4	N.A.	27.70
40-70	996.45	N.A.	24.80
60-80	401.70	N.A.	10.00
70-80	143.71	N.A.	3.60
80-90	36.49	N.A.	0.90
90-110	399.29	N.A.	9.90
90-120	714.38	N.A.	17.70
90-130	1021.14	N.A.	25.40
90-150	1527.23	N.A.	37.90
90-180	1823.7	N.A.	45.30
110-180	1424.41	N.A.	35.40
0-180	4025.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.23
10-20	224.42
20-30	332.44
30-40	389.46
40-50	392.50
50-60	345.96
60-70	257.99
70-80	143.71
80-90	36.49
90-100	96.50
100-110	302.79
110-120	315.08
120-130	306.77
130-140	277.19
140-150	228.90
150-160	166.91
160-170	98.10
170-180	31.46

IES INDOOR REPORT

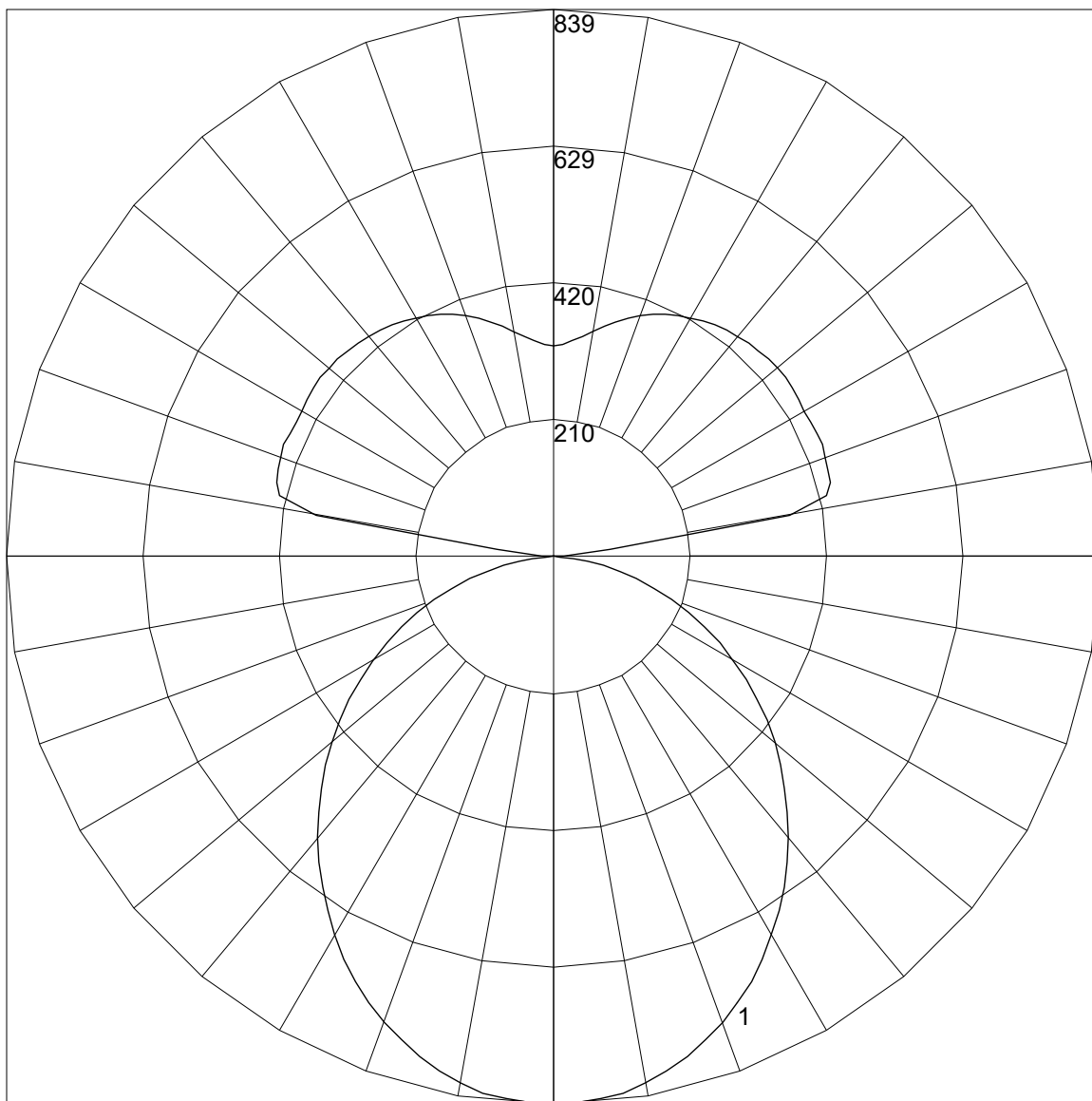
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	94	91	87	92	88	84	81	75	73	71	64	62	61	53	52	51	46
2	90	82	76	71	83	77	71	67	66	62	58	56	53	51	47	45	43	39
3	82	72	65	59	76	68	61	56	58	53	49	50	46	43	42	39	36	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	31	28
5	69	57	49	43	64	53	46	41	46	40	36	40	35	32	33	30	27	24
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

POLAR GRAPH



Maximum Candela = 839 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)