

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-H-S-8-35-OPEN-ITL85122.007.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85122.007 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/04/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 36.3 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 39.7 WATTS

[ABSOLUTE]LUMENS]4367

[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	4367
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	36.3
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	12.444	46.667	32.667	33.444	33.444
95.0	35.778	210.778	108.111	62.222	59.111
97.5	63.778	245.778	513.333	285.445	166.444
100.0	94.111	271.445	570.889	710.111	700.778
102.5	126.000	290.111	589.556	764.556	818.222
105.0	157.111	317.333	605.889	777.778	836.111
107.5	185.889	343.778	619.889	784.000	840.000
110.0	216.222	367.111	623.000	791.778	844.667
112.5	245.000	388.889	633.889	797.222	850.889
115.0	273.000	410.667	647.889	794.111	848.556
117.5	300.222	432.445	660.333	795.667	844.667
120.0	325.889	452.667	671.222	802.667	846.222
122.5	350.000	472.111	680.556	808.889	850.889
125.0	372.555	490.000	687.556	812.778	853.222
127.5	394.333	507.111	694.556	815.889	854.778
130.0	415.333	523.444	699.222	816.667	854.778
132.5	435.555	538.222	704.667	815.889	852.444

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-H-S-8-35-OPEN-ITL85122.007.IES****CANDELA TABULATION - (Cont.)**

135.0	453.445	551.444	709.333	813.556	847.778
137.5	470.555	563.111	712.444	809.667	843.111
140.0	487.667	574.000	714.778	805.778	836.111
142.5	503.222	583.333	715.556	801.111	829.111
145.0	518.778	591.889	715.556	795.667	821.333
147.5	532.000	599.667	714.778	789.444	812.778
150.0	544.444	604.333	710.889	780.111	801.889
152.5	556.111	609.000	705.444	770.778	791.000
155.0	566.222	612.889	699.222	759.111	777.000
157.5	575.556	615.222	691.444	745.111	762.222
160.0	584.111	616.778	682.889	729.556	745.111
162.5	591.111	616.778	672.000	712.444	726.444
165.0	597.333	616.778	661.111	694.556	705.444
167.5	602.000	616.000	649.444	676.667	686.778
170.0	605.889	615.222	638.556	658.000	665.778
172.5	609.000	615.222	628.444	641.667	646.333
175.0	611.333	613.667	619.889	627.667	629.222
177.5	613.667	614.444	616.000	617.556	617.556
180.0	613.667	613.667	613.667	613.667	613.667

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-H-S-8-35-OPEN-ITL85122.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	124.30	N.A.	2.80
0-30	260.39	N.A.	6.00
0-40	419.82	N.A.	9.60
0-60	722.11	N.A.	16.50
0-80	886.55	N.A.	20.30
0-90	901.49	N.A.	20.60
10-90	869.06	N.A.	19.90
20-40	295.51	N.A.	6.80
20-50	456.19	N.A.	10.40
40-70	407.90	N.A.	9.30
60-80	164.44	N.A.	3.80
70-80	58.83	N.A.	1.30
80-90	14.94	N.A.	0.30
90-110	758.66	N.A.	17.40
90-120	1357.31	N.A.	31.10
90-130	1940.17	N.A.	44.40
90-150	2901.74	N.A.	66.50
90-180	3465.03	N.A.	79.40
110-180	2706.38	N.A.	62.00
0-180	4366.52	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	183.36
100-110	575.30
110-120	598.66
120-130	582.86
130-140	526.66
140-150	434.91
150-160	317.13
160-170	186.40
170-180	59.77

IES INDOOR REPORT

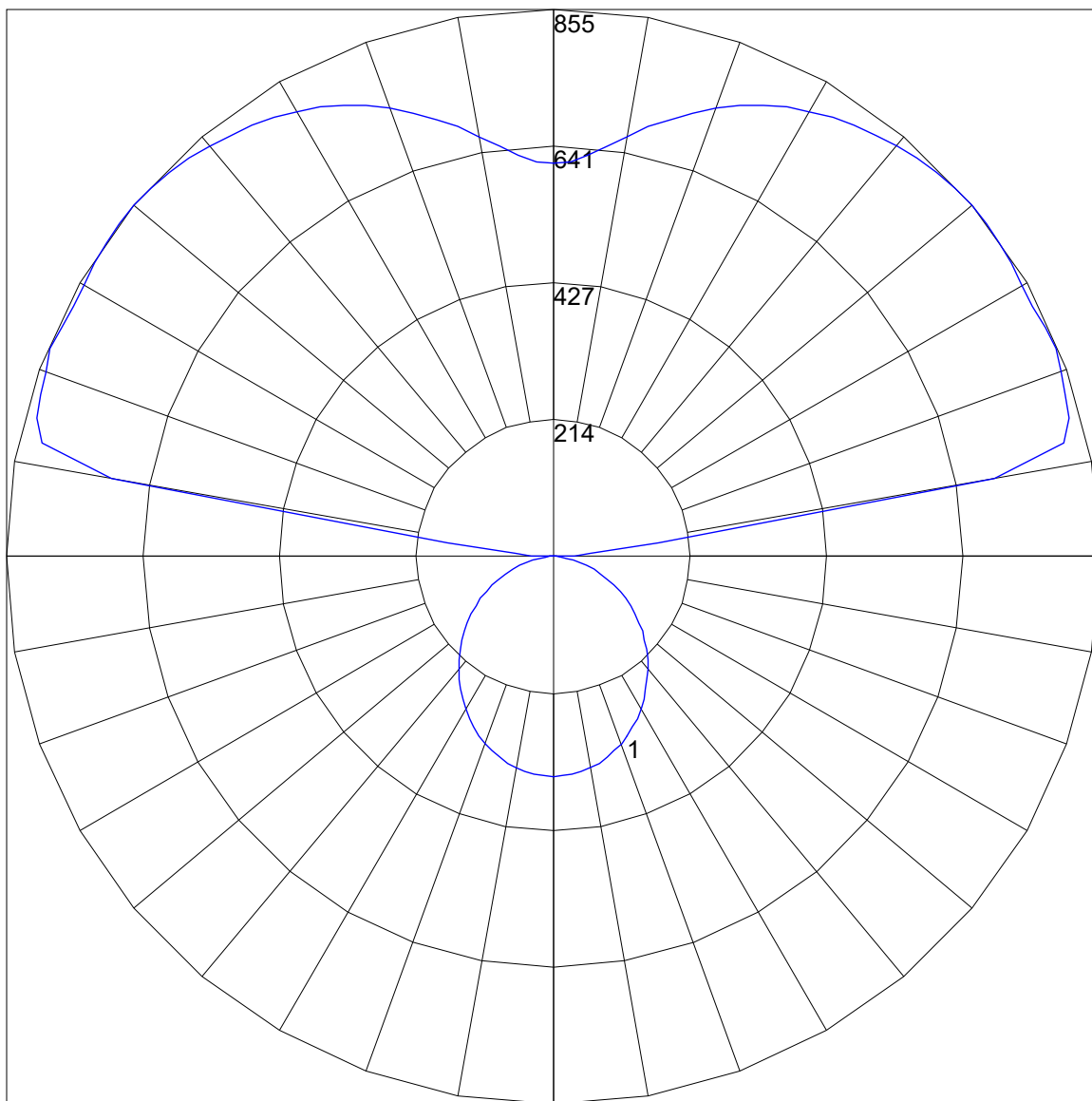
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21
1	91	87	83	80	81	77	74	71	59	57	55	41	40	39	26	25	25	17
2	83	76	70	65	73	67	63	58	51	48	45	36	34	33	23	22	21	15
3	76	67	60	54	67	59	53	49	45	41	38	32	30	28	20	19	18	12
4	69	59	51	46	61	52	46	41	40	36	32	28	26	23	18	16	15	11
5	63	52	45	39	56	46	40	35	36	31	28	25	23	20	16	14	13	9
6	58	47	39	33	51	42	35	30	32	27	24	23	20	18	14	13	11	8
7	54	42	34	29	47	37	31	26	29	24	21	21	18	15	13	11	10	7
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	12	10	9	6
9	46	34	27	22	41	31	25	20	24	19	16	17	14	12	11	9	8	6
10	43	31	25	20	38	28	22	18	22	17	14	16	13	11	10	9	7	5

POLAR GRAPH



Maximum Candela = 854.778 Located At Horizontal Angle = 90, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)