

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-H-8-35-OPEN-ITL85122.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85122.003 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-H-H-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 43.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 46.9 WATTS

[ABSOLUTE]LUMENS]5178

[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	5178
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	43.6
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	509.444	504.778	505.556	503.222	500.889
35.0	489.222	484.556	485.333	482.222	480.667
37.5	468.222	464.333	464.333	461.222	458.889
40.0	446.444	441.778	442.556	439.444	437.111
42.5	423.889	419.222	420.000	416.111	414.556
45.0	400.556	396.667	396.667	392.778	391.222
47.5	378.778	374.111	373.333	369.444	368.667
50.0	354.667	350.000	349.222	345.333	345.333
52.5	330.556	326.667	325.111	322.000	322.000
55.0	306.444	302.556	301.000	297.889	297.889
57.5	282.333	278.444	277.667	273.778	273.000
60.0	257.444	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	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	285.444	166.444
100.0	94.111	271.444	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	432.444	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	372.556	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	435.556	538.222	704.667	815.889	852.444

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-H-H-8-35-OPEN-ITL85122.003.IES****CANDELA TABULATION - (Cont.)**

135.0	453.444	551.444	709.333	813.556	847.778
137.5	470.556	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-H-8-35-OPEN-ITL85122.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	236.17	N.A.	4.60
0-30	494.74	N.A.	9.60
0-40	797.65	N.A.	15.40
0-60	1372.01	N.A.	26.50
0-80	1684.44	N.A.	32.50
0-90	1712.83	N.A.	33.10
10-90	1651.21	N.A.	31.90
20-40	561.48	N.A.	10.80
20-50	866.76	N.A.	16.70
40-70	775.02	N.A.	15.00
60-80	312.43	N.A.	6.00
70-80	111.78	N.A.	2.20
80-90	28.38	N.A.	0.50
90-110	758.65	N.A.	14.70
90-120	1357.31	N.A.	26.20
90-130	1940.17	N.A.	37.50
90-150	2901.74	N.A.	56.00
90-180	3465.03	N.A.	66.90
110-180	2706.38	N.A.	52.30
0-180	5177.86	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	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

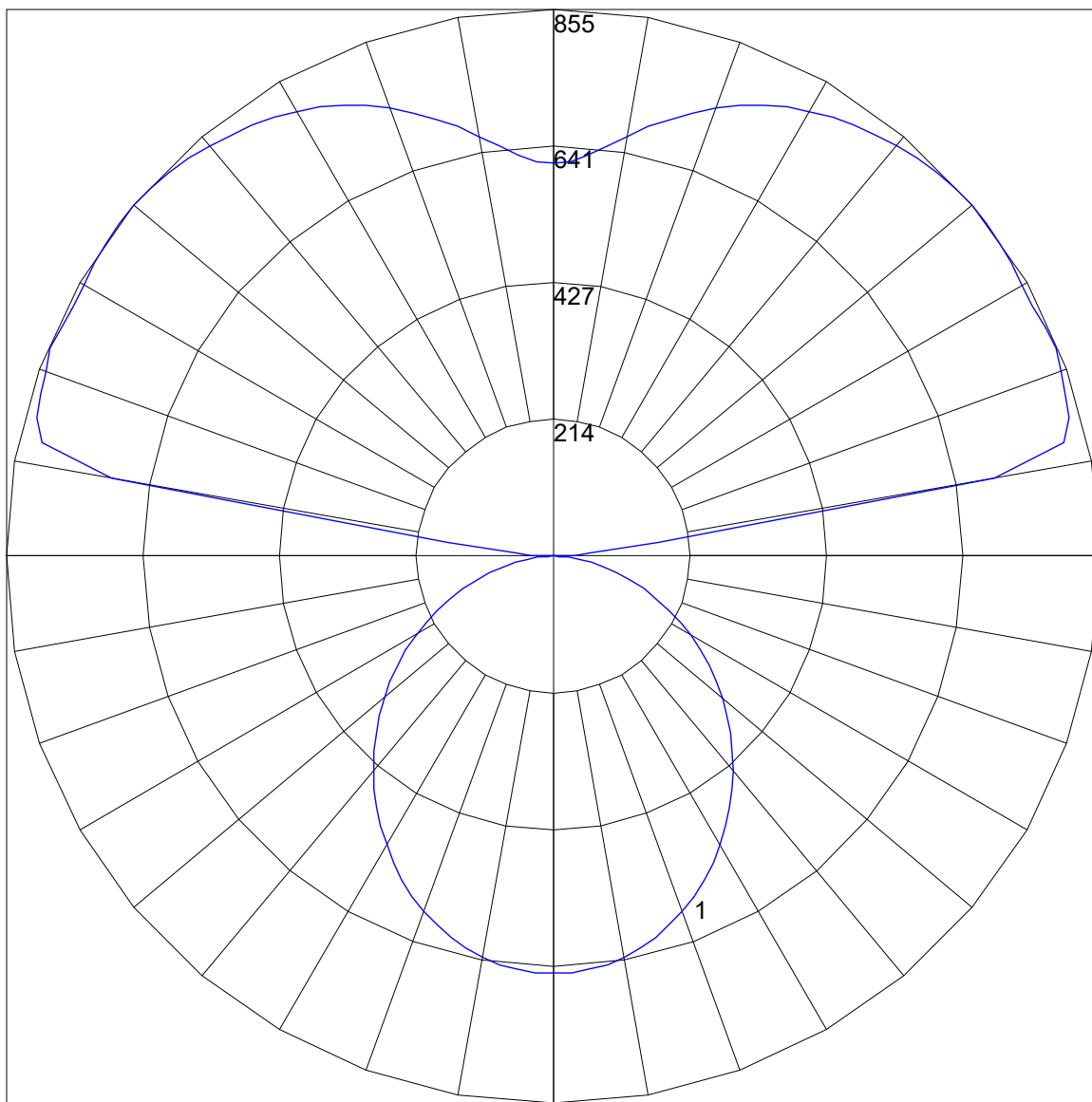
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	61	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
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	17	15	16	13	11	9
10	45	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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.)