

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-V-8-TW-OPEN-ITL85122.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85122.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/4/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S16-LED-ID-DCO-4ft-3E-V-V-8-TW-OPEN

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 62.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 65.1 WATTS

[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

[_ABSOLUTE]LUMENS]6657

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	62.5
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
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	839	839	839	839
2.5	839	838	839	839	838
5.0	835	834	834	835	834
7.5	830	829	829	829	829
10.0	822	819	821	820	819
12.5	812	808	810	810	807
15.0	800	795	798	798	794
17.5	785	778	782	781	777
20.0	769	760	764	764	760
22.5	749	741	744	744	740
25.0	728	720	723	722	719
27.5	705	698	700	698	696
30.0	680	673	676	673	670
32.5	655	649	650	647	644
35.0	629	623	624	620	618
37.5	602	597	597	593	590
40.0	574	568	569	565	562
42.5	545	539	540	535	533
45.0	515	510	510	505	503
47.5	487	481	480	475	474
50.0	456	450	449	444	444
52.5	425	420	418	414	414
55.0	394	389	387	383	383
57.5	363	358	357	352	351
60.0	331	327	325	321	320
62.5	299	295	293	289	288
65.0	266	263	261	257	257
67.5	234	231	229	226	225
70.0	201	199	197	194	194
72.5	169	168	166	164	163
75.0	138	137	135	134	133
77.5	108	107	106	105	105
80.0	79	79	78	78	78
82.5	53	54	53	53	53
85.0	30	31	31	31	31
87.5	10	11	11	11	11
90.0	0	0	0	0	0
92.5	16	60	42	43	43
95.0	46	271	139	80	76
97.5	82	316	660	367	214
100.0	121	349	734	913	901
102.5	162	373	758	983	1052
105.0	202	408	779	1000	1075
107.5	239	442	797	1008	1080
110.0	278	472	801	1018	1086
112.5	315	500	815	1025	1094
115.0	351	528	833	1021	1091
117.5	386	556	849	1023	1086
120.0	419	582	863	1032	1088
122.5	450	607	875	1040	1094
125.0	479	630	884	1045	1097
127.5	507	652	893	1049	1099
130.0	534	673	899	1050	1099
132.5	560	692	906	1049	1096

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-V-V-8-TW-OPEN-ITL85122.900.IES****CANDELA TABULATION - (Cont.)**

135.0	583	709	912	1046	1090
137.5	605	724	916	1041	1084
140.0	627	738	919	1036	1075
142.5	647	750	920	1030	1066
145.0	667	761	920	1023	1056
147.5	684	771	919	1015	1045
150.0	700	777	914	1003	1031
152.5	715	783	907	991	1017
155.0	728	788	899	976	999
157.5	740	791	889	958	980
160.0	751	793	878	938	958
162.5	760	793	864	916	934
165.0	768	793	850	893	907
167.5	774	792	835	870	883
170.0	779	791	821	846	856
172.5	783	791	808	825	831
175.0	786	789	797	807	809
177.5	789	790	792	794	794
180.0	789	789	789	789	789

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-V-V-8-TW-OPEN-ITL85122.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	303.65	N.A.	4.60
0-30	636.09	N.A.	9.60
0-40	1025.55	N.A.	15.40
0-60	1764.01	N.A.	26.50
0-80	2165.71	N.A.	32.50
0-90	2202.2	N.A.	33.10
10-90	2122.98	N.A.	31.90
20-40	721.90	N.A.	10.80
20-50	1114.4	N.A.	16.70
40-70	996.45	N.A.	15.00
60-80	401.70	N.A.	6.00
70-80	143.71	N.A.	2.20
80-90	36.49	N.A.	0.50
90-110	975.41	N.A.	14.70
90-120	1745.12	N.A.	26.20
90-130	2494.51	N.A.	37.50
90-150	3730.81	N.A.	56.00
90-180	4455.04	N.A.	66.90
110-180	3479.63	N.A.	52.30
0-180	6657.25	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	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

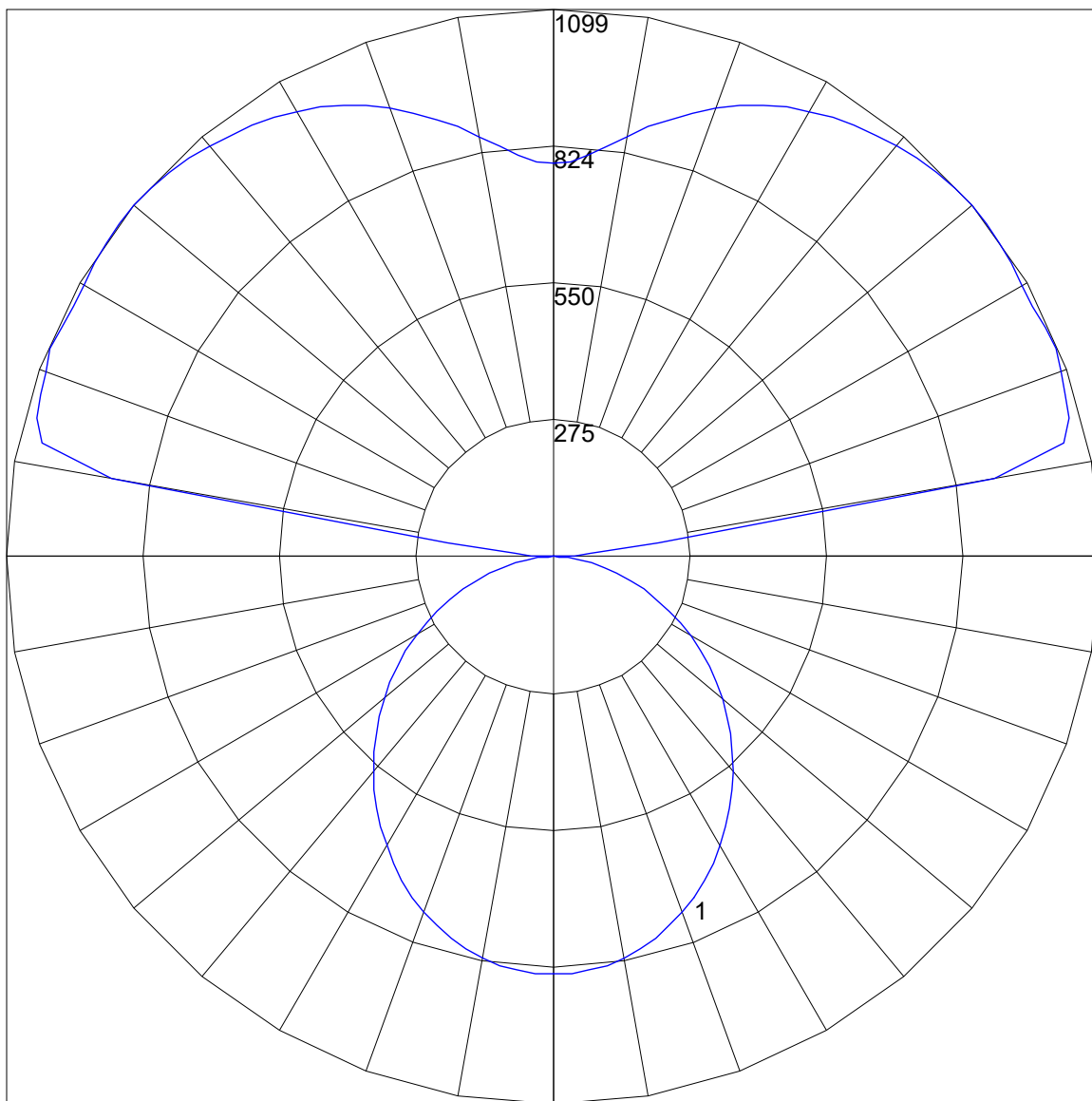
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1099 Located At Horizontal Angle = 90, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)