

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-4E-S-8-35-TDO-ITL85122.213.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85122.213 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE] 08/4/15

[ISSUEDATE]08/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S16-LED-ID-DCO-4ft-4E-S-8-35-TDO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 25.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 26.6 WATTS

[ABSOLUTE]LUMENS]3000

[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	3000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	25.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
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	10425	10324	10182
55	9832	9657	9558
65	9009	8840	8704
75	7632	7466	7355
85	4927	5091	5091

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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	1142.948	1142.948	1142.948	1142.948	1142.948
2.5	1142.948	1141.586	1142.948	1142.948	1141.586
5.0	1137.499	1136.137	1136.137	1137.499	1136.137
7.5	1130.688	1129.325	1129.325	1129.325	1129.325
10.0	1119.789	1115.703	1118.427	1117.065	1115.703
12.5	1106.167	1100.717	1103.442	1103.442	1099.355
15.0	1089.819	1083.008	1087.095	1087.095	1081.646
17.5	1069.385	1059.849	1065.298	1063.936	1058.487
20.0	1047.589	1035.328	1040.777	1040.777	1035.328
22.5	1020.343	1009.445	1013.532	1013.532	1008.083
25.0	991.736	980.837	984.924	983.562	979.475
27.5	960.403	950.867	953.592	950.867	948.143
30.0	926.346	916.811	920.897	916.811	912.724
32.5	892.290	884.116	885.478	881.391	877.304
35.0	856.870	848.697	850.059	844.610	841.885
37.5	820.089	813.278	813.278	807.829	803.742
40.0	781.945	773.772	775.134	769.685	765.598
42.5	742.439	734.266	735.628	728.817	726.092
45.0	701.571	694.760	694.760	687.948	685.224
47.5	663.428	655.254	653.891	647.080	645.718
50.0	621.197	613.023	611.661	604.850	604.850
52.5	578.966	572.155	569.431	563.981	563.981
55.0	536.736	529.925	527.200	521.751	521.751
57.5	494.505	487.694	486.332	479.521	478.158
60.0	450.913	445.464	442.739	437.290	435.928
62.5	407.320	401.871	399.146	393.697	392.335
65.0	362.365	358.278	355.553	350.104	350.104
67.5	318.772	314.685	311.961	307.874	306.512
70.0	273.817	271.092	268.368	264.281	264.281
72.5	230.224	228.862	226.137	223.413	222.051
75.0	187.994	186.631	183.907	182.545	181.182
77.5	147.126	145.763	144.401	143.039	143.039
80.0	107.620	107.620	106.257	106.257	106.257
82.5	72.201	73.563	72.201	72.201	72.201
85.0	40.868	42.230	42.230	42.230	42.230
87.5	13.623	14.985	14.985	14.985	14.985
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-4E-S-8-35-TDO-ITL85122.213.IES****CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-4E-S-8-35-TDO-ITL85122.213.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	413.65	N.A.	13.80
0-30	866.53	N.A.	28.90
0-40	1397.08	N.A.	46.60
0-60	2403.06	N.A.	80.10
0-80	2950.29	N.A.	98.30
0-90	3000.01	N.A.	100.00
10-90	2892.08	N.A.	96.40
20-40	983.43	N.A.	32.80
20-50	1518.12	N.A.	50.60
40-70	1357.44	N.A.	45.20
60-80	547.23	N.A.	18.20
70-80	195.78	N.A.	6.50
80-90	49.72	N.A.	1.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3000.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.93
10-20	305.73
20-30	452.88
30-40	530.55
40-50	534.69
50-60	471.29
60-70	351.45
70-80	195.78
80-90	49.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

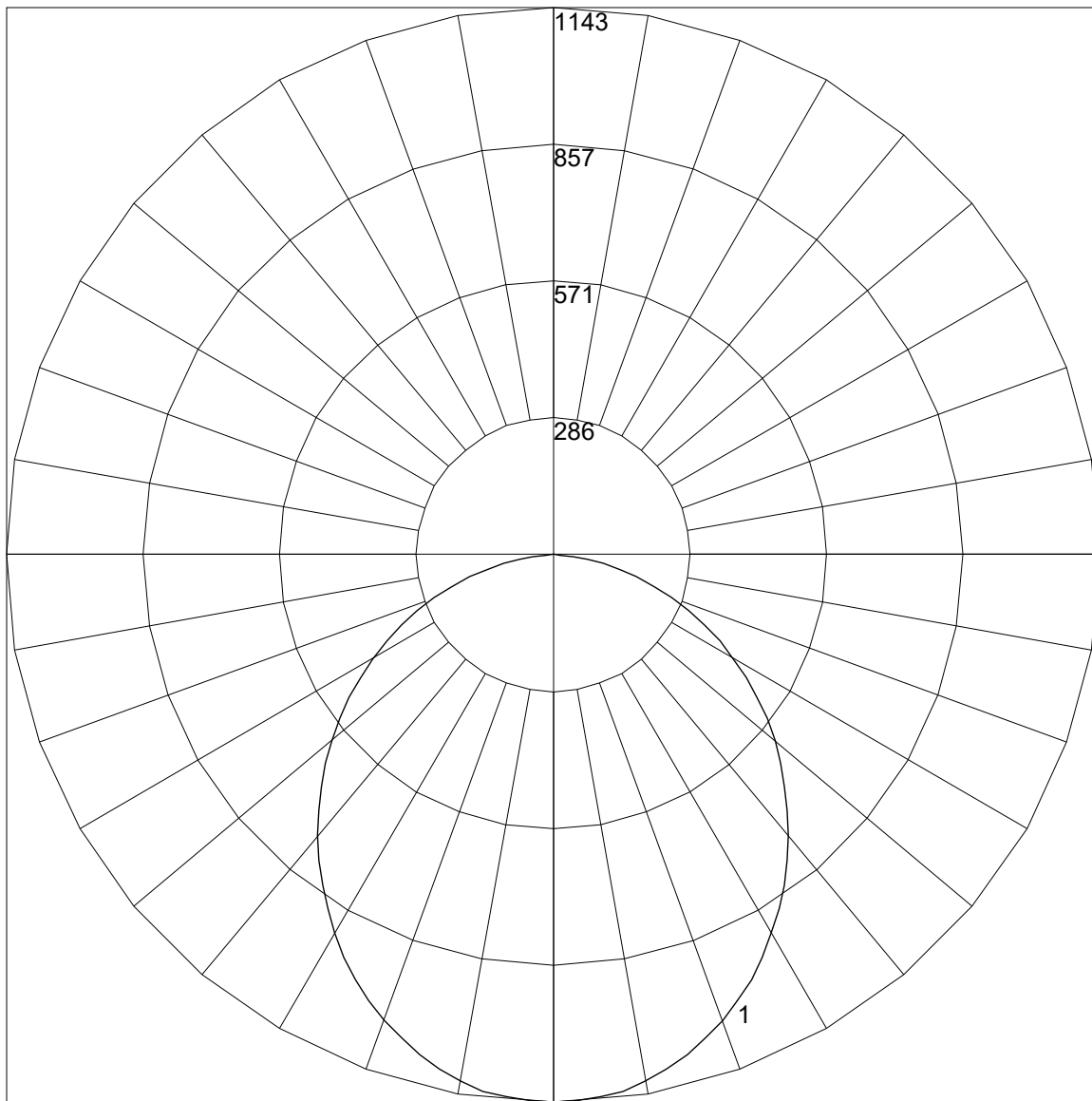
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1142.948 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)