

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-2E-V-8-TW-OPEN-ITL85120.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85120.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/03/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S16-LED-ID-DCO-4ft-2E-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, 41.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.9 WATTS

[OTHER]see www.finelite.com for source file ITL85120. 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

[_ABSOLUTELUMENS]4722

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4722
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	41
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	3730	3982	4220
55	3627	3884	4140
65	3406	3655	3878
75	2923	3126	3329
85	1929	2170	2291

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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	361	361	361	361	361
2.5	360	361	361	361	361
5.0	359	360	360	361	361
7.5	358	359	359	361	361
10.0	356	356	358	360	360
12.5	353	353	357	360	360
15.0	350	349	355	359	359
17.5	345	345	352	357	358
20.0	340	340	349	354	356
22.5	335	334	344	351	353
25.0	328	328	339	347	350
27.5	321	322	334	343	346
30.0	313	314	327	337	340
32.5	304	306	319	330	334
35.0	295	297	311	322	326
37.5	285	288	302	313	318
40.0	274	277	291	303	308
42.5	263	266	280	292	297
45.0	251	254	268	280	284
47.5	238	242	255	266	271
50.0	225	229	241	252	257
52.5	212	215	227	237	242
55.0	198	201	212	222	226
57.5	183	186	196	206	209
60.0	168	171	180	189	192
62.5	153	155	164	171	174
65.0	137	139	147	154	156
67.5	120	122	130	135	138
70.0	104	106	112	117	118
72.5	88	90	95	99	100
75.0	72	74	77	81	82
77.5	56	58	61	64	65
80.0	42	43	45	47	48
82.5	29	30	31	32	33
85.0	16	17	18	18	19
87.5	5	6	6	6	6
90.0	0	0	0	0	0
92.5	21	15	5	3	3
95.0	37	332	37	27	24
97.5	50	374	692	140	60
100.0	63	403	732	932	999
102.5	76	431	751	956	1026
105.0	90	471	774	965	1037
107.5	104	490	781	978	1047
110.0	119	498	789	986	1060
112.5	133	500	799	983	1055
115.0	146	499	819	984	1051
117.5	159	497	833	984	1048
120.0	172	495	831	989	1045
122.5	184	493	823	999	1045
125.0	196	491	811	996	1049
127.5	206	489	798	982	1040
130.0	215	484	782	962	1021
132.5	223	479	765	940	997

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-2E-V-8-TW-OPEN-ITL85120.900.IES****CANDELA TABULATION - (Cont.)**

135.0	230	472	746	916	970
137.5	237	464	725	890	942
140.0	243	455	703	860	910
142.5	248	445	681	830	874
145.0	252	433	656	796	835
147.5	256	420	630	762	798
150.0	259	407	602	726	758
152.5	262	392	572	688	717
155.0	264	377	542	649	676
157.5	267	362	508	608	633
160.0	268	348	474	563	588
162.5	270	333	440	517	539
165.0	271	319	407	471	489
167.5	272	305	375	424	440
170.0	272	293	344	380	392
172.5	272	284	314	340	348
175.0	271	276	290	303	308
177.5	271	272	276	279	280
180.0	271	271	271	271	271

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-2E-V-8-TW-OPEN-ITL85120.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	134.47	N.A.	2.80
0-30	290.59	N.A.	6.20
0-40	484.59	N.A.	10.30
0-60	879.54	N.A.	18.60
0-80	1106.18	N.A.	23.40
0-90	1127.12	N.A.	23.90
10-90	1092.79	N.A.	23.10
20-40	350.12	N.A.	7.40
20-50	556.15	N.A.	11.80
40-70	539.63	N.A.	11.40
60-80	226.64	N.A.	4.80
70-80	81.96	N.A.	1.70
80-90	20.94	N.A.	0.40
90-110	933.36	N.A.	19.80
90-120	1652.09	N.A.	35.00
90-130	2304.2	N.A.	48.80
90-150	3215.32	N.A.	68.10
90-180	3594.87	N.A.	76.10
110-180	2661.52	N.A.	56.40
0-180	4721.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.33
10-20	100.14
20-30	156.11
30-40	194.01
40-50	206.03
50-60	188.92
60-70	144.68
70-80	81.96
80-90	20.94
90-100	205.16
100-110	728.20
110-120	718.73
120-130	652.11
130-140	529.07
140-150	382.06
150-160	236.81
160-170	113.52
170-180	29.22

IES INDOOR REPORT

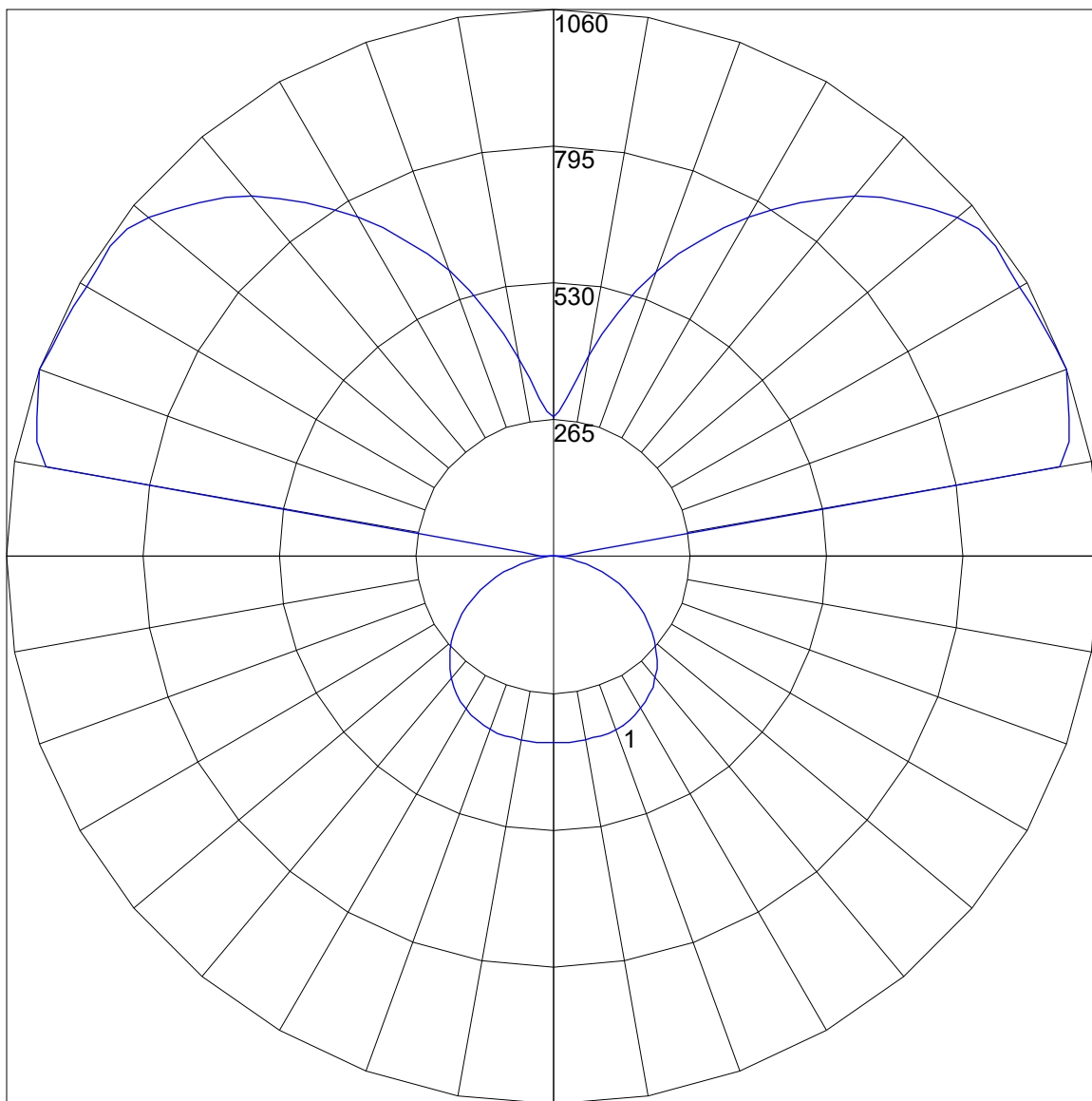
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	80	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	83	76	70	65	74	68	63	59	52	49	46	38	36	34	25	23	22	16
3	76	67	60	54	67	60	54	49	46	42	39	33	31	29	22	20	19	14
4	69	59	51	46	61	53	46	41	41	36	33	30	27	24	19	18	16	12
5	63	52	44	39	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	16	14	12	9
7	54	42	34	29	48	38	31	26	29	24	21	21	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8	6
10	43	31	24	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

POLAR GRAPH



Maximum Candela = 1060 Located At Horizontal Angle = 90, Vertical Angle = 110
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)