

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 : S12-LED-ID-DCO-4FT-2E-H-8-35-FTO-ITL85162.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85162.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/10/15

[ISSUEDATE]04/26/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S12-LED-ID-DCO-4ft-2E-H-8-35-FTO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.3 WATTS

[ABSOLUTE]LUMENS]3415

[OTHER]see www.finelite.com for source file ITL85162. 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	3415
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	28.4
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 w/Sides
Luminous Length (0-180)	3.32 ft
Luminous Width (90-270)	0.36 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3598	3577	3660
55	3468	3382	3464
65	3187	3027	3064
75	2680	2409	2546
85	1574	1612	1881

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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	428.556	428.556	428.556	428.556	428.556
2.5	427.778	427.778	427.778	427.778	427.778
5.0	426.222	426.222	427.000	427.000	427.778
7.5	423.889	424.667	425.444	426.222	426.222
10.0	421.556	420.778	423.111	424.667	424.667
12.5	418.444	416.889	420.778	423.111	422.333
15.0	413.000	411.444	416.889	419.222	419.222
17.5	407.556	406.778	412.222	415.333	416.111
20.0	401.333	399.778	406.778	411.444	411.444
22.5	393.556	392.778	400.556	406.000	406.778
25.0	385.000	385.000	393.556	399.778	401.333
27.5	375.667	376.444	385.000	392.778	394.333
30.0	365.556	366.333	376.444	385.000	386.556
32.5	354.667	356.222	367.111	375.667	378.000
35.0	343.000	344.556	356.222	365.556	367.889
37.5	330.556	332.889	343.778	353.111	356.222
40.0	318.111	319.667	332.111	341.444	344.556
42.5	304.111	306.444	318.111	328.222	331.333
45.0	289.333	291.667	304.111	313.444	316.556
47.5	274.556	276.889	288.556	297.889	301.778
50.0	259.000	262.111	273.000	282.333	285.444
52.5	242.667	245.778	255.889	265.222	269.111
55.0	227.111	229.444	239.556	248.111	251.222
57.5	210.000	212.333	220.889	229.444	232.556
60.0	192.111	194.444	203.000	210.000	213.111
62.5	174.222	176.556	184.333	191.333	193.667
65.0	154.778	158.667	164.889	171.111	172.667
67.5	137.667	140.000	145.444	151.667	153.222
70.0	119.000	120.556	126.000	132.222	133.778
72.5	100.333	102.667	106.556	113.556	115.889
75.0	80.889	84.000	87.889	95.667	98.000
77.5	63.000	66.111	70.778	78.556	80.111
80.0	47.444	49.000	56.000	62.222	63.778
82.5	31.889	33.444	41.222	47.444	49.000
85.0	17.111	21.000	28.000	34.222	36.556
87.5	4.667	9.333	17.111	23.333	24.889
90.0	0.000	4.667	11.667	18.667	21.000
92.5	15.556	18.667	27.222	35.000	37.333
95.0	32.667	39.667	52.111	60.667	60.667
97.5	51.333	62.222	78.556	86.333	89.444
100.0	71.556	87.111	105.000	120.556	126.000
102.5	93.333	109.667	139.222	159.444	167.222
105.0	115.889	136.889	175.000	202.222	211.556
107.5	139.222	164.889	213.111	246.556	258.222
110.0	162.556	194.444	250.444	292.444	307.222
112.5	185.889	223.222	290.889	339.889	356.222
115.0	209.222	252.778	330.556	385.000	405.222
117.5	231.000	280.778	369.444	430.889	451.111
120.0	252.778	308.000	406.000	474.444	497.000
122.5	274.556	333.667	441.000	515.667	539.778
125.0	294.778	357.000	472.111	553.000	579.444
127.5	312.667	378.000	499.333	585.667	614.444
130.0	329.000	395.111	521.889	612.889	641.667
132.5	343.778	409.889	539.778	633.889	664.222

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-2E-H-8-35-FTO-ITL85162.003.IES****CANDELA TABULATION - (Cont.)**

135.0	357.000	422.333	553.000	648.667	680.556
137.5	369.444	432.444	561.556	657.222	689.111
140.0	379.556	439.444	564.667	659.556	691.444
142.5	388.111	444.111	563.889	655.667	686.778
145.0	395.111	445.667	558.444	645.556	675.889
147.5	401.333	446.444	550.667	632.333	661.111
150.0	406.000	445.667	539.778	615.222	640.889
152.5	409.111	444.111	527.333	595.000	618.333
155.0	413.000	441.778	514.889	574.000	595.000
157.5	414.556	438.667	500.111	550.667	569.333
160.0	416.111	435.556	485.333	527.333	544.444
162.5	416.889	431.667	471.333	505.556	518.778
165.0	417.667	428.556	458.889	483.778	495.444
167.5	417.667	425.444	447.222	465.111	472.889
170.0	417.667	422.333	437.111	448.778	454.222
172.5	416.889	420.000	428.556	435.556	439.444
175.0	416.111	417.667	422.333	425.444	426.222
177.5	416.889	417.667	418.444	419.222	419.222
180.0	416.889	416.889	416.889	416.889	416.889

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-2E-H-8-35-FTO-ITL85162.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	158.18	N.A.	4.60
0-30	339.28	N.A.	9.90
0-40	561.52	N.A.	16.40
0-60	1008.43	N.A.	29.50
0-80	1266.26	N.A.	37.10
0-90	1298.34	N.A.	38.00
10-90	1257.72	N.A.	36.80
20-40	403.34	N.A.	11.80
20-50	637.05	N.A.	18.70
40-70	609.88	N.A.	17.90
60-80	257.83	N.A.	7.50
70-80	94.86	N.A.	2.80
80-90	32.08	N.A.	0.90
90-110	236.70	N.A.	6.90
90-120	551.58	N.A.	16.20
90-130	956.16	N.A.	28.00
90-150	1710.12	N.A.	50.10
90-180	2116.91	N.A.	62.00
110-180	1880.2	N.A.	55.10
0-180	3415.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.62
10-20	117.55
20-30	181.10
30-40	222.24
40-50	233.71
50-60	213.20
60-70	162.97
70-80	94.86
80-90	32.08
90-100	56.64
100-110	180.06
110-120	314.88
120-130	404.58
130-140	411.81
140-150	342.16
150-160	235.64
160-170	130.42
170-180	40.72

IES INDOOR REPORT

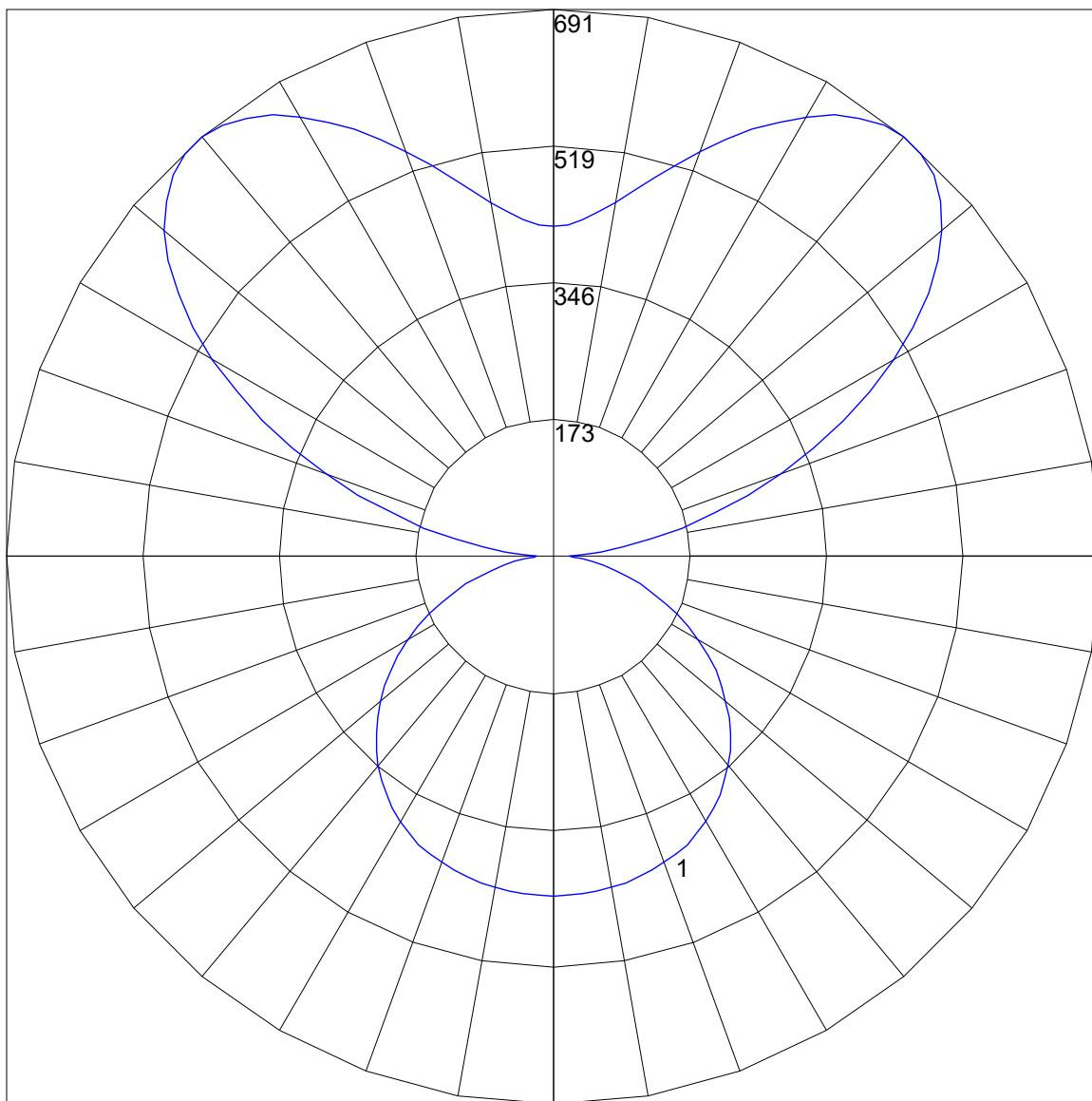
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	83	86	82	79	76	67	64	62	53	51	50	39	39	38	32
2	86	79	73	68	78	72	66	62	58	55	51	46	43	41	34	33	31	26
3	78	69	62	56	71	63	57	51	51	47	43	40	37	34	30	28	26	22
4	72	61	53	47	65	56	49	43	45	40	36	36	32	29	27	25	23	19
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	19	25	20	17	20	16	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 691.444 Located At Horizontal Angle = 90, Vertical Angle = 140
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)