

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-3E-V-H-8-35-FTO-ITL85165.006.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85165.006 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/09/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]S12-LED-ID-DCO-4ft-3E-V-H-8-35-FTO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 52.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 55.1 WATTS

[ABSOLUTE]LUMENS]6226

[OTHER]see www.finelite.com for source file ITL85165. 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	6226
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	52.4
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	4459	4263	4200
55	4181	3899	3839
65	3795	3469	3353
75	3170	2793	2809
85	1860	2015	2281

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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	582.556	582.556	582.556	582.556	582.556
2.5	581.778	581.778	581.778	581.778	581.778
5.0	578.667	579.444	579.444	579.444	579.444
7.5	575.556	575.556	575.556	575.556	576.333
10.0	570.111	569.333	570.889	570.889	570.111
12.5	563.111	561.556	563.889	563.889	563.111
15.0	554.556	551.444	555.333	555.333	554.556
17.5	544.444	541.333	546.000	546.000	545.222
20.0	532.778	528.889	533.556	534.333	533.556
22.5	519.556	515.667	521.111	521.889	521.889
25.0	504.778	501.667	506.333	507.889	508.667
27.5	489.222	486.889	490.778	493.889	493.889
30.0	472.889	470.555	474.445	478.333	477.555
32.5	455.000	453.445	458.889	460.445	459.667
35.0	436.333	435.555	441.000	443.333	441.778
37.5	418.445	416.889	422.333	423.889	423.111
40.0	399.000	398.222	402.889	404.445	403.667
42.5	379.555	378.000	382.667	384.222	383.445
45.0	358.555	357.778	362.445	363.222	363.222
47.5	337.555	336.778	340.667	343.000	342.222
50.0	316.555	316.555	319.667	321.222	321.222
52.5	295.555	296.333	297.889	300.222	300.222
55.0	273.778	274.555	276.111	278.445	278.445
57.5	252.000	252.778	254.333	256.667	255.889
60.0	229.444	230.222	232.556	234.889	234.111
62.5	206.889	208.444	210.778	212.333	211.556
65.0	184.333	185.889	189.000	189.778	189.000
67.5	161.778	163.333	166.444	168.000	167.222
70.0	139.222	141.556	144.667	146.222	147.000
72.5	116.667	119.778	122.111	126.778	127.556
75.0	95.667	98.778	101.889	107.333	108.111
77.5	74.667	77.778	82.444	87.889	89.444
80.0	54.444	58.333	64.556	70.778	72.333
82.5	36.556	40.444	48.222	56.000	57.556
85.0	20.222	24.889	35.000	42.778	44.333
87.5	6.222	13.222	23.333	31.111	33.444
90.0	0.000	7.000	17.889	26.444	29.556
92.5	33.000	39.000	54.000	66.000	69.000
95.0	69.000	78.000	95.000	108.000	114.000
97.5	109.000	122.000	144.000	159.000	166.000
100.0	153.000	170.000	200.000	220.000	229.000
102.5	202.000	224.000	262.000	290.000	302.000
105.0	254.000	281.000	330.000	366.000	380.000
107.5	308.000	341.000	401.000	446.000	459.000
110.0	365.000	404.000	476.000	529.000	545.000
112.5	420.000	468.000	552.000	611.000	632.000
115.0	480.000	532.000	629.000	696.000	719.000
117.5	540.000	597.000	703.000	780.000	804.000
120.0	599.000	662.000	778.000	862.000	888.000
122.5	658.000	725.000	848.000	940.000	969.000
125.0	717.000	786.000	917.000	1013.000	1044.000
127.5	774.000	846.000	982.000	1081.000	1113.000
130.0	830.000	902.000	1041.000	1142.000	1174.000
132.5	885.000	956.000	1095.000	1196.000	1228.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-V-H-8-35-FTO-ITL85165.006.IES****CANDELA TABULATION - (Cont.)**

135.0	936.000	1005.000	1143.000	1244.000	1275.000
137.5	986.000	1052.000	1186.000	1283.000	1314.000
140.0	1033.000	1094.000	1223.000	1316.000	1345.000
142.5	1076.000	1130.000	1253.000	1340.000	1368.000
145.0	1118.000	1166.000	1280.000	1362.000	1387.000
147.5	1153.000	1196.000	1300.000	1375.000	1399.000
150.0	1188.000	1224.000	1318.000	1386.000	1406.000
152.5	1219.000	1248.000	1332.000	1393.000	1410.000
155.0	1245.000	1270.000	1342.000	1396.000	1412.000
157.5	1269.000	1288.000	1350.000	1395.000	1410.000
160.0	1289.000	1305.000	1356.000	1392.000	1406.000
162.5	1307.000	1318.000	1360.000	1388.000	1401.000
165.0	1322.000	1330.000	1362.000	1384.000	1393.000
167.5	1334.000	1340.000	1363.000	1378.000	1386.000
170.0	1344.000	1348.000	1362.000	1373.000	1379.000
172.5	1351.000	1355.000	1362.000	1369.000	1373.000
175.0	1357.000	1359.000	1362.000	1365.000	1366.000
177.5	1361.000	1361.000	1361.000	1363.000	1363.000
180.0	1362.000	1362.000	1362.000	1362.000	1362.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-V-H-8-35-FTO-ITL85165.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	211.32	N.A.	3.40
0-30	444.26	N.A.	7.10
0-40	719.22	N.A.	11.60
0-60	1244.75	N.A.	20.00
0-80	1539.33	N.A.	24.70
0-90	1578.52	N.A.	25.40
10-90	1523.5	N.A.	24.50
20-40	507.90	N.A.	8.20
20-50	786.43	N.A.	12.60
40-70	711.51	N.A.	11.40
60-80	294.58	N.A.	4.70
70-80	108.60	N.A.	1.70
80-90	39.19	N.A.	0.60
90-110	450.56	N.A.	7.20
90-120	1057.92	N.A.	17.00
90-130	1859.86	N.A.	29.90
90-150	3516.54	N.A.	56.50
90-180	4646.99	N.A.	74.60
110-180	4196.44	N.A.	67.40
0-180	6225.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.02
10-20	156.30
20-30	232.94
30-40	274.95
40-50	278.54
50-60	246.99
60-70	185.98
70-80	108.60
80-90	39.19
90-100	106.73
100-110	343.83
110-120	607.36
120-130	801.94
130-140	865.75
140-150	790.93
150-160	615.87
160-170	384.60
170-180	129.99

IES INDOOR REPORT

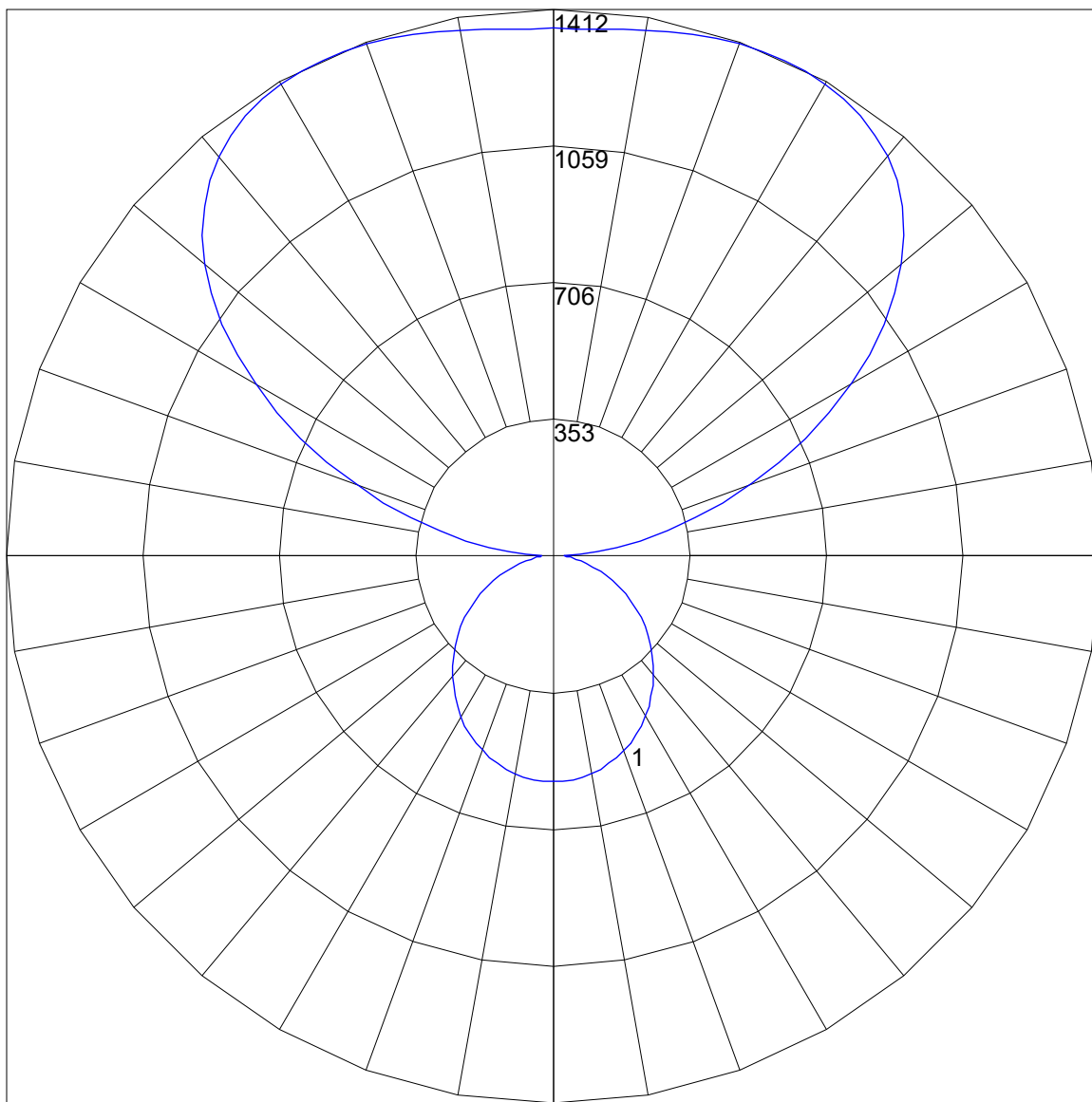
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	70	70	70	51	51	51	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	29	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	25	23	18
3	76	67	60	55	68	60	54	49	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	19	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	25	21	19	17	15	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	17	15	13	11	9
8	50	38	31	26	45	34	28	23	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

POLAR GRAPH



Maximum Candela = 1412 Located At Horizontal Angle = 90, Vertical Angle = 155
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)