

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 : HP-4-ID-4FT-S-V-835-ITL85125.015.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.015 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUEDATE]02/09/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-S-V-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 51.6 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.9 WATTS
[ABSOLUTE]LUMENS]5417
[OTHER]see www.finelite.com for source file ITL85125. 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	5417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	51.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10114	9973	9796
55	9391	9246	9057
65	8569	8451	8313
75	7495	7495	7463
85	6209	6496	6687

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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	1443.000	1443.000	1443.000	1443.000	1443.000
2.5	1440.000	1440.000	1440.000	1440.000	1440.000
5.0	1433.000	1434.000	1434.000	1433.000	1434.000
7.5	1423.000	1424.000	1423.000	1421.000	1423.000
10.0	1409.000	1406.000	1407.000	1407.000	1405.000
12.5	1392.000	1387.000	1388.000	1388.000	1383.000
15.0	1368.000	1360.000	1365.000	1363.000	1356.000
17.5	1342.000	1331.000	1336.000	1334.000	1327.000
20.0	1311.000	1299.000	1303.000	1300.000	1293.000
22.5	1277.000	1264.000	1267.000	1263.000	1256.000
25.0	1239.000	1225.000	1228.000	1224.000	1216.000
27.5	1198.000	1184.000	1186.000	1181.000	1174.000
30.0	1154.000	1140.000	1141.000	1136.000	1128.000
32.5	1108.000	1097.000	1096.000	1089.000	1082.000
35.0	1062.000	1050.000	1049.000	1040.000	1034.000
37.5	1012.000	1000.000	1001.000	990.000	984.000
40.0	962.000	952.000	951.000	940.000	934.000
42.5	914.000	901.000	898.000	889.000	883.000
45.0	859.000	850.000	847.000	838.000	832.000
47.5	806.000	797.000	795.000	786.000	780.000
50.0	753.000	745.000	742.000	733.000	728.000
52.5	700.000	692.000	691.000	681.000	676.000
55.0	647.000	640.000	637.000	628.000	624.000
57.5	593.000	587.000	584.000	576.000	572.000
60.0	541.000	534.000	532.000	525.000	522.000
62.5	487.000	481.000	479.000	473.000	471.000
65.0	435.000	430.000	429.000	424.000	422.000
67.5	382.000	379.000	378.000	374.000	372.000
70.0	331.000	329.000	329.000	326.000	324.000
72.5	281.000	282.000	280.000	281.000	278.000
75.0	233.000	234.000	233.000	234.000	232.000
77.5	187.000	188.000	190.000	190.000	190.000
80.0	144.000	145.000	147.000	148.000	148.000
82.5	105.000	106.000	107.000	108.000	108.000
85.0	65.000	67.000	68.000	69.000	70.000
87.5	28.000	30.000	31.000	34.000	34.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	12.281	13.099	13.918	15.556	15.965
95.0	29.064	29.474	31.111	33.158	33.567
97.5	47.076	47.485	49.532	51.579	51.170
100.0	65.497	66.316	68.363	70.409	70.000
102.5	84.328	85.965	88.012	90.058	90.058
105.0	105.205	106.842	108.889	110.526	110.117
107.5	127.310	128.538	129.766	131.404	131.404
110.0	151.053	151.053	152.281	153.918	153.509
112.5	174.795	173.977	175.614	178.070	176.023
115.0	198.538	197.719	198.538	200.585	198.947
117.5	222.281	222.690	223.099	223.509	222.281
120.0	246.433	247.251	246.842	246.433	245.614
122.5	270.994	271.813	271.813	270.585	269.357
125.0	295.965	297.193	297.193	294.737	293.509
127.5	320.936	321.754	322.573	318.889	316.433
130.0	345.088	345.497	346.316	343.860	341.813
132.5	369.649	369.240	369.649	368.012	365.555

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CANDELA TABULATION - (Cont.)

135.0	394.211	392.164	393.392	392.164	389.298
137.5	417.953	414.678	416.725	415.088	412.222
140.0	441.696	438.012	440.468	438.830	435.555
142.5	463.392	460.526	463.392	460.936	458.070
145.0	486.725	481.813	485.088	482.632	479.766
147.5	507.602	502.690	505.965	503.509	500.643
150.0	528.070	522.749	526.023	523.567	521.111
152.5	546.082	541.988	545.263	542.398	540.351
155.0	563.684	559.591	562.456	560.000	557.953
157.5	580.877	576.784	579.240	576.784	575.146
160.0	595.614	592.339	594.795	592.339	591.111
162.5	609.532	605.848	608.713	606.257	605.439
165.0	620.994	618.129	619.766	618.538	618.129
167.5	631.228	628.772	630.000	629.181	629.181
170.0	639.825	638.187	639.006	638.187	638.187
172.5	645.965	645.965	645.556	645.556	645.556
175.0	650.877	650.877	650.877	650.468	650.877
177.5	653.743	654.152	654.152	654.152	654.152
180.0	654.971	654.971	654.971	654.971	654.971

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	519.83	N.A.	9.60
0-30	1084.16	N.A.	20.00
0-40	1738.57	N.A.	32.10
0-60	2958.57	N.A.	54.60
0-80	3630.15	N.A.	67.00
0-90	3706.19	N.A.	68.40
10-90	3570.19	N.A.	65.90
20-40	1218.73	N.A.	22.50
20-50	1870.64	N.A.	34.50
40-70	1643.59	N.A.	30.30
60-80	671.58	N.A.	12.40
70-80	247.99	N.A.	4.60
80-90	76.04	N.A.	1.40
90-110	150.17	N.A.	2.80
90-120	347.37	N.A.	6.40
90-130	611.92	N.A.	11.30
90-150	1216.66	N.A.	22.50
90-180	1711.21	N.A.	31.60
110-180	1561.04	N.A.	28.80
0-180	5417.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.00
10-20	383.83
20-30	564.33
30-40	654.40
40-50	651.91
50-60	568.09
60-70	423.59
70-80	247.99
80-90	76.04
90-100	35.09
100-110	115.08
110-120	197.20
120-130	264.55
130-140	302.64
140-150	302.10
150-160	258.31
160-170	174.50
170-180	61.74

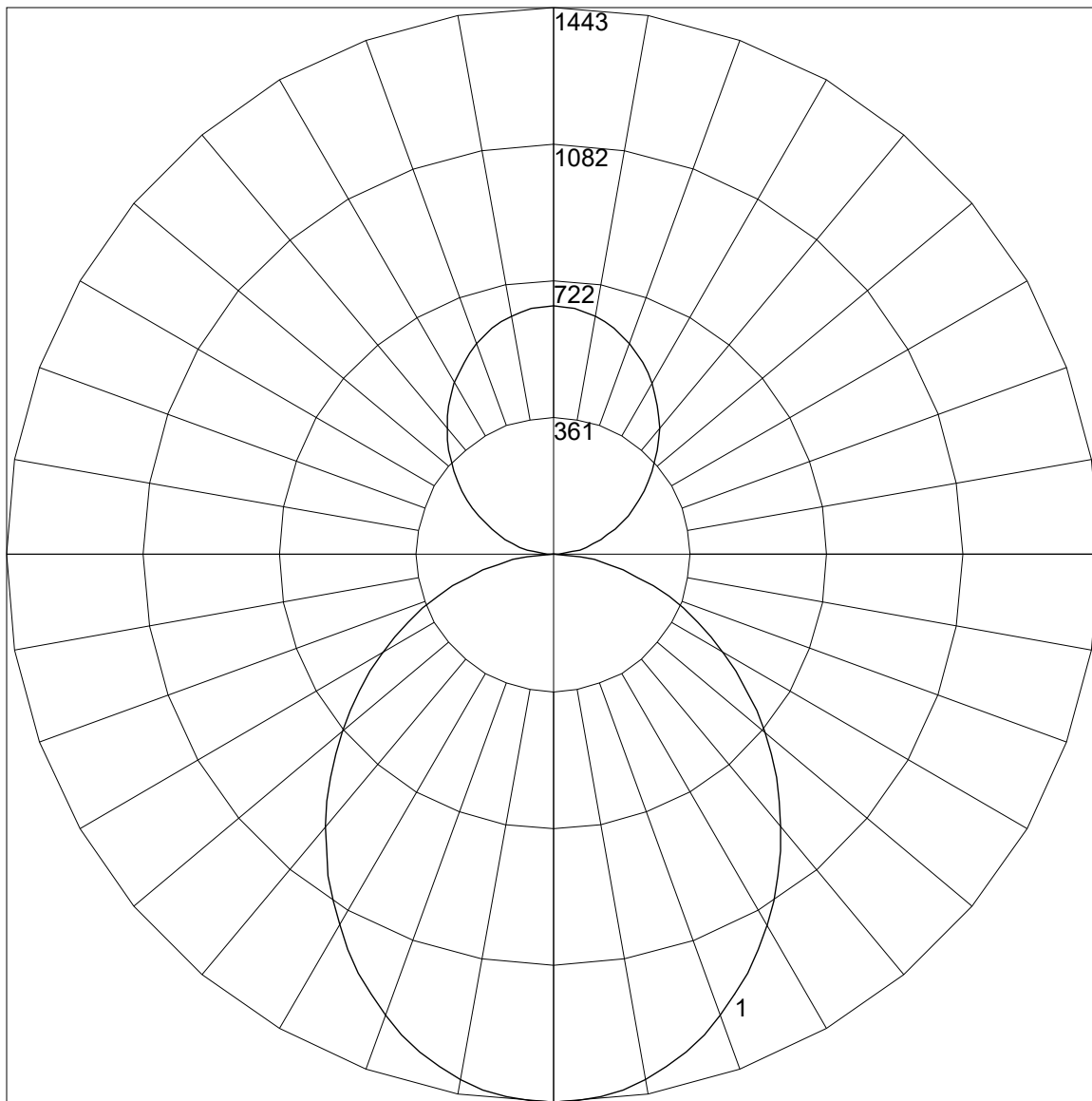
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	102	97	93	90	96	92	88	85	82	79	77	73	71	69	64	63	62	57
2	93	85	79	73	87	80	75	70	72	67	64	64	61	58	57	54	52	48
3	85	75	67	61	80	71	64	58	63	58	54	57	52	49	50	47	44	41
4	77	66	58	52	73	63	55	50	56	50	46	50	46	42	45	41	38	35
5	71	59	51	45	67	56	49	43	51	44	40	45	40	36	41	36	33	30
6	66	53	45	39	62	51	43	37	46	39	35	41	36	32	37	33	29	27
7	61	48	40	34	57	46	38	33	42	35	31	37	32	28	34	29	26	24
8	57	44	36	30	53	42	34	29	38	32	27	34	29	25	31	27	23	21
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	24	21	19
10	49	37	29	25	47	35	28	24	32	26	22	29	24	21	27	22	19	17

POLAR GRAPH



Maximum Candela = 1443 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)