

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-RG-4FT-H-835-ITL85129.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85129.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/10/15
[ISSUEDATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-RG-4ft-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.4 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.3 WATTS
[ABSOLUTE]LUMENS]2705
[OTHER]see www.finelite.com for source file ITL85129. 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	2705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	28.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
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	8288	7299	6694
55	7688	6435	5724
65	7018	5393	4551
75	6155	3978	3027
85	4978	2823	2749

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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	1176.000	1176.000	1176.000	1176.000	1176.000
2.5	1174.444	1174.444	1174.444	1173.667	1173.667
5.0	1169.778	1168.222	1166.667	1164.333	1164.333
7.5	1161.222	1158.111	1154.222	1149.556	1147.222
10.0	1149.556	1142.556	1135.556	1129.333	1123.889
12.5	1134.000	1123.889	1113.778	1106.000	1098.222
15.0	1116.111	1100.556	1089.667	1078.778	1069.444
17.5	1094.333	1074.111	1060.889	1046.889	1036.778
20.0	1068.667	1043.778	1029.778	1012.667	1001.778
22.5	1041.444	1012.667	994.778	975.333	963.667
25.0	1009.556	980.000	958.222	934.889	922.444
27.5	976.889	945.778	920.111	893.667	882.778
30.0	943.444	909.222	881.222	851.667	840.000
32.5	906.111	870.333	839.222	807.333	795.667
35.0	868.000	830.667	796.444	763.000	749.778
37.5	828.333	790.222	752.889	718.667	704.667
40.0	786.333	748.222	709.333	673.556	659.556
42.5	746.667	706.222	665.000	629.222	614.444
45.0	703.889	662.667	619.889	582.556	568.556
47.5	659.556	619.889	575.556	537.444	523.444
50.0	616.778	576.333	531.222	493.111	479.889
52.5	573.222	532.778	486.889	450.333	437.111
55.0	529.667	490.000	443.333	406.778	394.333
57.5	487.667	446.444	400.556	365.556	352.333
60.0	443.333	402.889	357.000	322.778	309.556
62.5	399.778	360.111	315.000	282.333	269.889
65.0	356.222	318.889	273.778	242.667	231.000
67.5	314.222	277.667	234.111	205.333	193.667
70.0	272.222	237.222	196.000	168.000	157.889
72.5	231.000	197.556	159.444	133.000	124.444
75.0	191.333	159.444	123.667	101.111	94.111
77.5	153.222	124.444	91.000	77.778	76.222
80.0	117.444	90.222	63.778	60.667	59.889
82.5	84.000	58.333	45.889	44.333	44.333
85.0	52.111	31.889	29.556	28.000	28.778
87.5	21.778	14.778	13.222	12.444	13.222
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	417.16	N.A.	15.40
0-30	858.98	N.A.	31.80
0-40	1359.03	N.A.	50.20
0-60	2244.62	N.A.	83.00
0-80	2667.11	N.A.	98.60
0-90	2704.67	N.A.	100.00
10-90	2594.28	N.A.	95.90
20-40	941.87	N.A.	34.80
20-50	1424.42	N.A.	52.70
40-70	1165.6	N.A.	43.10
60-80	422.50	N.A.	15.60
70-80	142.48	N.A.	5.30
80-90	37.56	N.A.	1.40
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	2704.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.39
10-20	306.77
20-30	441.82
30-40	500.05
40-50	482.56
50-60	403.03
60-70	280.02
70-80	142.48
80-90	37.56
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

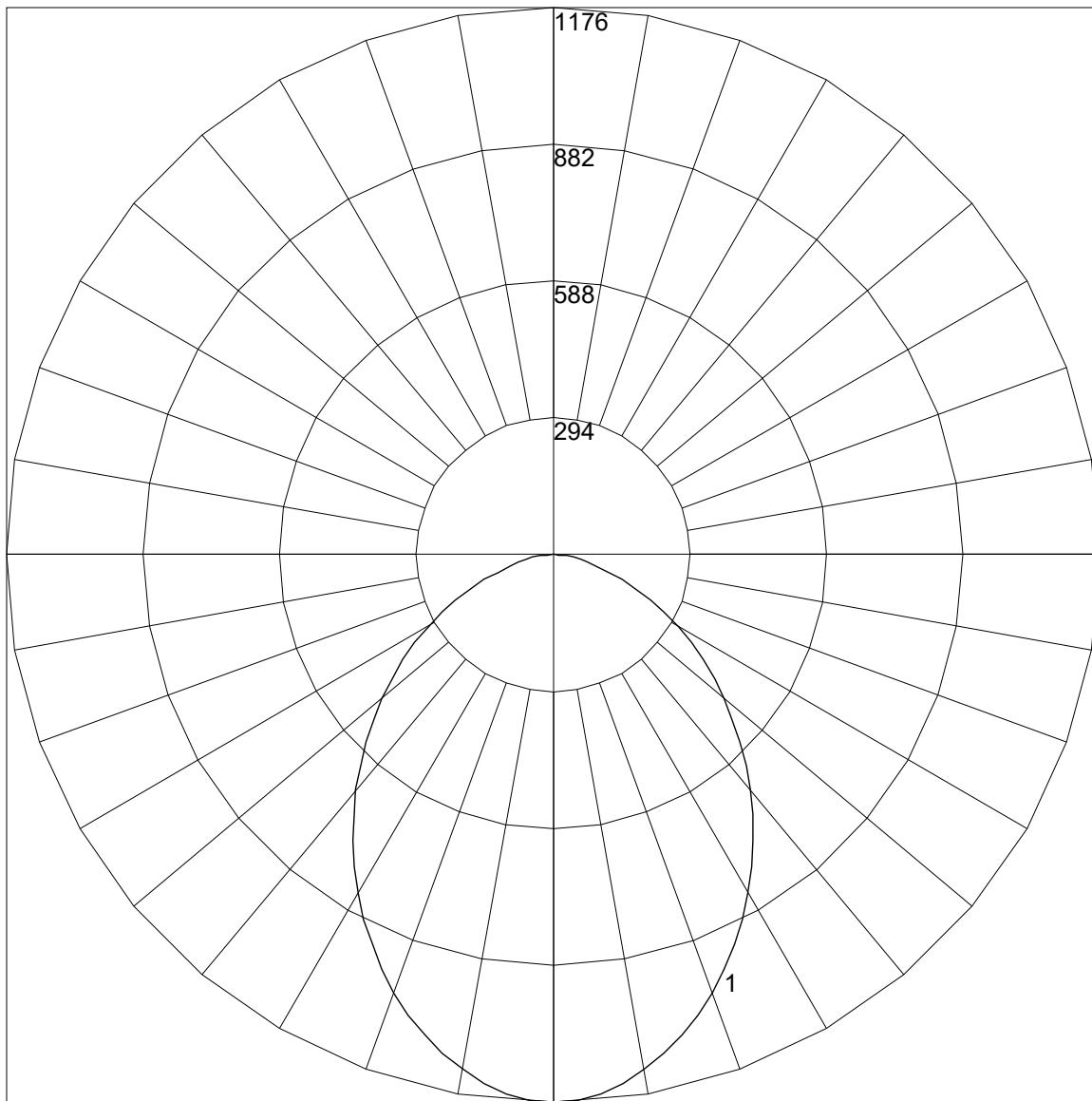
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1176 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)