

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 : HPR-LED-F-1X4-DCO-S-8-35-ITL85141.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85141.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/18/15
[ISSUE DATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-F-1X4-DCO-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.4 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.4 WATTS
[ABSOLUTE LUMENS]3099
[OTHER]see www.finelite.com for source file ITL85141. 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	3100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	28.4
Ballast Factor	1.00
CIE Type	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)	3.83 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3648	3556	3429
55	3317	3161	3006
65	2952	2747	2517
75	2499	2206	1924
85	2018	1180	932

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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	1263.889	1263.889	1263.889	1263.889	1263.889
2.5	1263.111	1263.111	1263.889	1263.111	1263.111
5.0	1256.889	1257.667	1258.444	1258.444	1258.444
7.5	1248.333	1249.111	1250.667	1250.667	1250.667
10.0	1236.667	1235.111	1239.000	1239.778	1237.444
12.5	1219.556	1218.778	1223.444	1225.000	1221.111
15.0	1200.111	1197.778	1204.778	1204.778	1201.667
17.5	1176.000	1172.889	1181.444	1180.667	1176.000
20.0	1149.556	1146.444	1153.444	1151.111	1147.222
22.5	1121.556	1116.889	1122.333	1120.000	1113.778
25.0	1088.889	1083.444	1088.111	1083.444	1078.000
27.5	1052.333	1046.889	1051.556	1044.556	1036.778
30.0	1014.222	1008.778	1010.333	1001.778	993.222
32.5	972.222	967.556	966.778	955.889	947.333
35.0	928.667	924.778	920.889	908.444	899.111
37.5	884.333	879.667	873.444	858.667	849.333
40.0	837.667	833.000	825.222	808.111	799.556
42.5	789.444	785.556	773.889	756.778	747.444
45.0	741.222	735.778	722.556	705.444	696.889
47.5	693.000	688.333	672.778	653.333	644.778
50.0	644.000	639.333	622.222	602.778	593.444
52.5	595.778	591.111	572.444	552.222	546.000
55.0	546.778	540.556	521.111	502.444	495.444
57.5	498.556	492.333	474.444	454.222	445.667
60.0	451.889	444.889	426.222	406.000	397.444
62.5	404.444	398.222	379.556	357.778	350.778
65.0	358.556	352.333	333.667	311.889	305.667
67.5	313.444	308.000	289.333	267.556	262.111
70.0	269.111	264.444	245.000	225.556	220.111
72.5	226.333	222.444	203.778	185.889	180.444
75.0	185.889	182.000	164.111	147.778	143.111
77.5	147.778	143.889	126.778	112.778	107.333
80.0	114.333	107.333	91.000	77.778	73.111
82.5	80.889	73.111	57.556	48.222	44.333
85.0	50.556	42.778	29.556	24.889	23.333
87.5	22.556	14.000	10.111	9.333	8.556
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	458.03	N.A.	14.80
0-30	956.98	N.A.	30.90
0-40	1529.96	N.A.	49.40
0-60	2553.1	N.A.	82.40
0-80	3058.3	N.A.	98.70
0-90	3099.74	N.A.	100.00
10-90	2980.28	N.A.	96.10
20-40	1071.94	N.A.	34.60
20-50	1628.14	N.A.	52.50
40-70	1353.07	N.A.	43.70
60-80	505.19	N.A.	16.30
70-80	175.26	N.A.	5.70
80-90	41.44	N.A.	1.30
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	3099.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.46
10-20	338.57
20-30	498.95
30-40	572.98
40-50	556.20
50-60	466.94
60-70	329.93
70-80	175.26
80-90	41.44
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

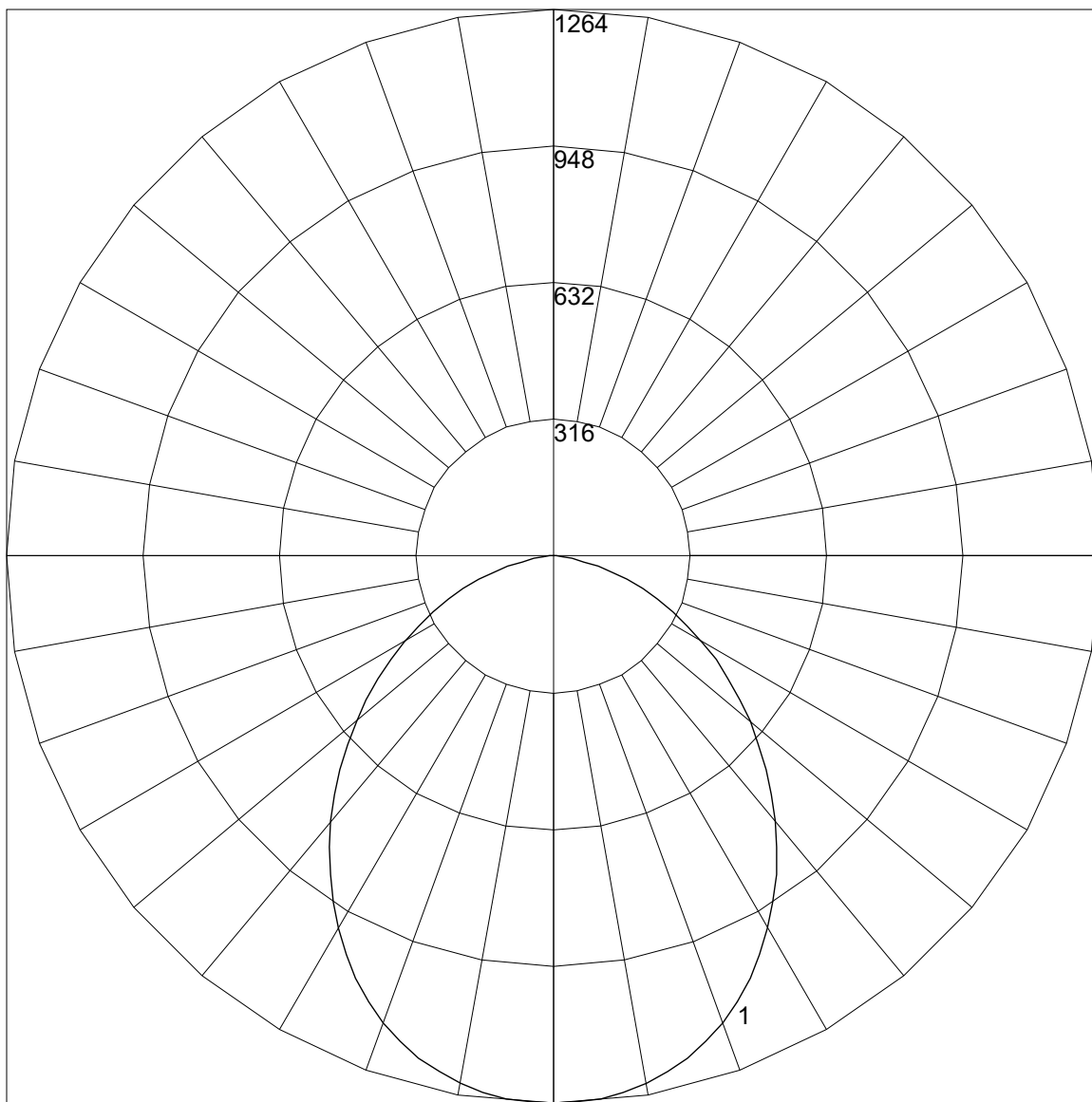
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

POLAR GRAPH



Maximum Candela = 1263.889 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)