

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-2X4-DD-S-8-35-ITL85156.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85156.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]09/01/15
[ISSUEDATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-F-2X4-DD-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 27.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 28.0 WATTS
[ABSOLUTE LUMENS]3076
[OTHER]see www.finelite.com for source file ITL85156. 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	3076
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	27
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)	1.80 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1567	1561	1549
55	1411	1407	1397
65	1248	1244	1238
75	1047	1057	1053
85	821	830	821

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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	1241.622	1241.622	1241.622	1241.622	1241.622
2.5	1240.000	1240.000	1240.000	1240.000	1240.000
5.0	1234.054	1234.595	1234.054	1234.595	1234.595
7.5	1225.405	1225.405	1224.865	1224.865	1225.405
10.0	1210.811	1211.351	1211.892	1211.892	1212.973
12.5	1192.432	1193.513	1195.135	1194.595	1194.054
15.0	1172.432	1172.973	1174.054	1172.432	1172.432
17.5	1148.108	1148.649	1149.189	1148.108	1148.108
20.0	1122.162	1121.081	1121.622	1120.000	1120.000
22.5	1090.811	1089.189	1089.730	1087.568	1088.108
25.0	1057.297	1055.676	1055.135	1053.513	1053.513
27.5	1021.081	1018.378	1018.919	1016.757	1016.216
30.0	982.162	980.540	979.459	977.838	976.216
32.5	939.459	939.459	938.378	936.757	935.135
35.0	898.378	895.676	894.595	892.432	890.811
37.5	853.513	850.811	849.730	848.649	846.486
40.0	806.486	804.865	803.243	802.162	800.000
42.5	759.459	757.838	756.216	755.135	750.811
45.0	711.892	709.189	709.189	707.568	703.784
47.5	663.784	661.622	661.081	659.459	655.676
50.0	616.757	614.054	612.432	612.432	608.649
52.5	569.189	565.946	565.946	564.324	561.081
55.0	520.000	518.919	518.378	515.135	514.595
57.5	473.513	473.513	471.892	469.189	468.108
60.0	427.568	427.027	425.946	423.784	422.162
62.5	383.243	383.784	382.162	379.459	382.162
65.0	338.919	338.919	337.838	335.676	336.216
67.5	295.676	296.216	295.135	292.973	293.514
70.0	254.054	254.595	254.054	251.892	252.973
72.5	212.973	214.054	213.514	212.973	212.973
75.0	174.054	175.676	175.676	175.135	175.135
77.5	139.459	139.459	139.459	139.459	139.459
80.0	105.946	105.405	105.946	105.946	106.486
82.5	74.595	74.595	75.135	75.135	75.135
85.0	45.946	45.946	46.486	45.946	45.946
87.5	21.081	19.459	20.000	19.459	17.838
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	447.60	N.A.	14.60
0-30	933.10	N.A.	30.30
0-40	1492.15	N.A.	48.50
0-60	2502.07	N.A.	81.30
0-80	3023.53	N.A.	98.30
0-90	3076.18	N.A.	100.00
10-90	2959.07	N.A.	96.20
20-40	1044.55	N.A.	34.00
20-50	1591.06	N.A.	51.70
40-70	1344.76	N.A.	43.70
60-80	521.46	N.A.	17.00
70-80	186.63	N.A.	6.10
80-90	52.65	N.A.	1.70
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	3076.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.12
10-20	330.48
20-30	485.50
30-40	559.05
40-50	546.51
50-60	463.41
60-70	334.84
70-80	186.63
80-90	52.65
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

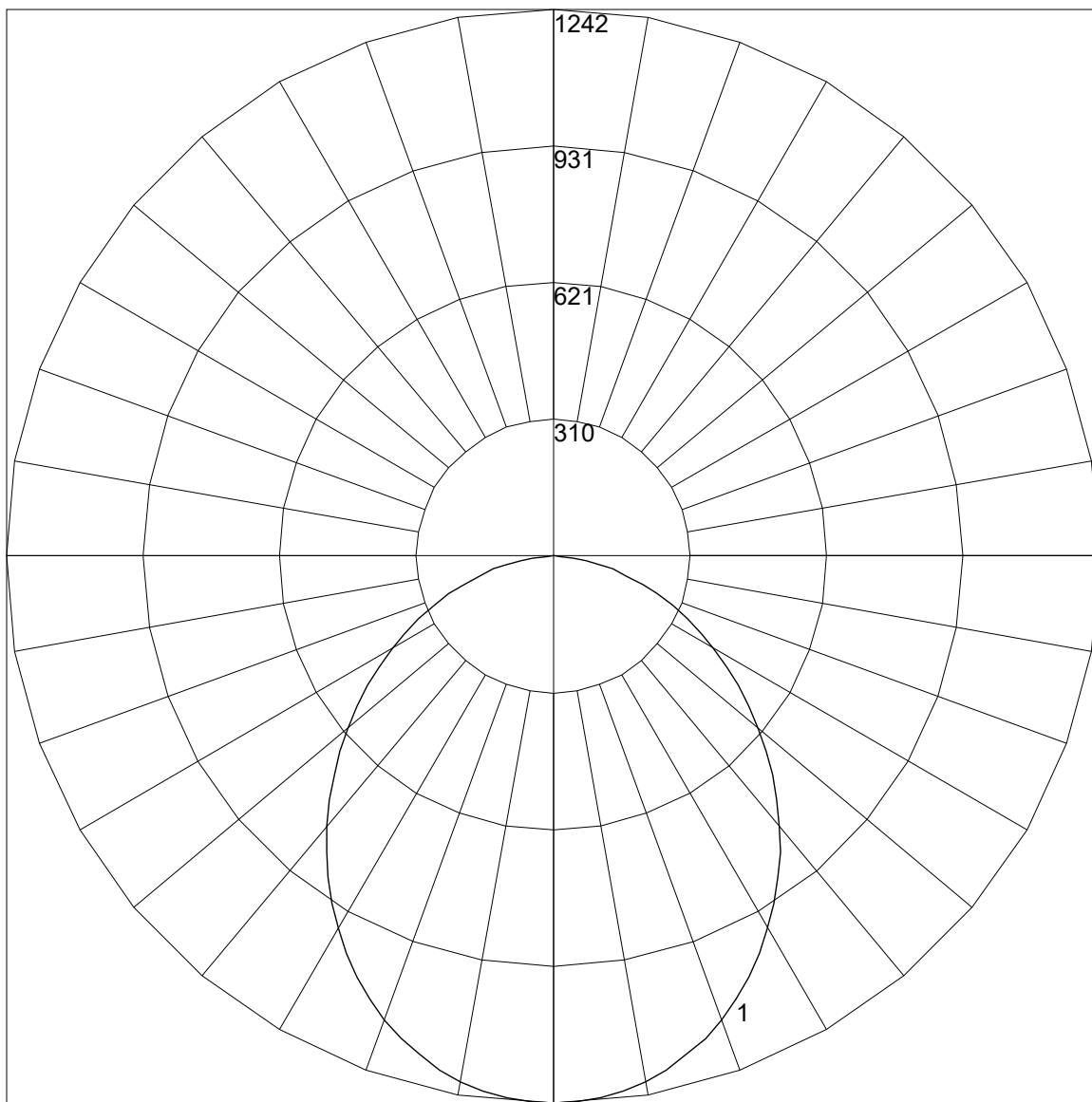
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1241.622 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)