

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-ANR-2X2-DCO-S-8-35-ITL85148.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85148.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/24/15
[ISSUEDATE]04/27/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-ANR-2X2-DCO-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.4 WATTS
[ABSOLUTE]LUMENS]3276
[OTHER]see www.finelite.com for source file ITL85148. 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	3276
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	28.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.82 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3513	3457	3484
55	3142	3079	3115
65	2735	2670	2715
75	2277	2217	2237
85	1695	1616	1419

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1361.139	1361.139	1361.139	1361.139	1361.139
2.5	1360.083	1360.083	1359.556	1359.028	1358.500
5.0	1353.750	1353.750	1352.167	1351.111	1350.583
7.5	1343.722	1342.667	1341.083	1338.444	1337.917
10.0	1330.528	1328.944	1324.722	1321.556	1319.444
12.5	1309.944	1307.833	1304.667	1301.500	1298.861
15.0	1286.722	1284.083	1279.861	1276.167	1273.528
17.5	1258.222	1256.111	1250.306	1247.139	1245.028
20.0	1227.611	1223.389	1218.111	1214.944	1212.833
22.5	1191.194	1186.972	1182.222	1179.056	1175.889
25.0	1152.667	1147.917	1142.639	1140.000	1137.889
27.5	1110.972	1105.694	1100.417	1098.306	1096.722
30.0	1067.694	1060.833	1056.083	1054.500	1052.917
32.5	1021.250	1013.333	1008.583	1008.583	1007.000
35.0	972.167	963.722	960.028	961.083	959.500
37.5	920.972	913.056	909.361	909.889	909.889
40.0	868.722	860.278	857.639	859.750	859.750
42.5	815.944	807.500	805.389	808.028	808.556
45.0	763.167	754.722	751.028	756.306	756.833
47.5	709.861	701.417	698.250	703.528	704.583
50.0	657.083	648.639	646.000	651.278	652.333
52.5	604.833	596.389	593.750	599.556	600.083
55.0	553.639	544.139	542.556	548.361	548.889
57.5	500.861	493.472	491.361	498.222	498.750
60.0	451.250	444.389	441.750	448.611	449.139
62.5	402.694	395.833	393.722	399.528	400.056
65.0	355.194	349.917	346.750	352.028	352.556
67.5	309.278	302.944	301.361	306.111	306.639
70.0	264.944	259.139	257.028	261.778	261.778
72.5	221.667	217.444	216.389	218.500	218.500
75.0	181.028	177.333	176.278	178.389	177.861
77.5	144.083	139.333	138.806	139.861	138.806
80.0	108.194	104.500	105.028	104.500	103.444
82.5	75.472	73.361	72.833	71.778	68.611
85.0	45.389	44.333	43.278	40.111	38.000
87.5	19.000	19.000	17.944	17.944	16.889
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-S-8-35-ITL85148.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	488.68	N.A.	14.90
0-30	1015.03	N.A.	31.00
0-40	1616.45	N.A.	49.30
0-60	2688.38	N.A.	82.10
0-80	3225.56	N.A.	98.50
0-90	3276.03	N.A.	100.00
10-90	3147.82	N.A.	96.10
20-40	1127.78	N.A.	34.40
20-50	1710.59	N.A.	52.20
40-70	1419.69	N.A.	43.30
60-80	537.18	N.A.	16.40
70-80	189.42	N.A.	5.80
80-90	50.47	N.A.	1.50
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	3276.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.22
10-20	360.46
20-30	526.35
30-40	601.43
40-50	582.81
50-60	489.12
60-70	347.76
70-80	189.42
80-90	50.47
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

IES INDOOR REPORT

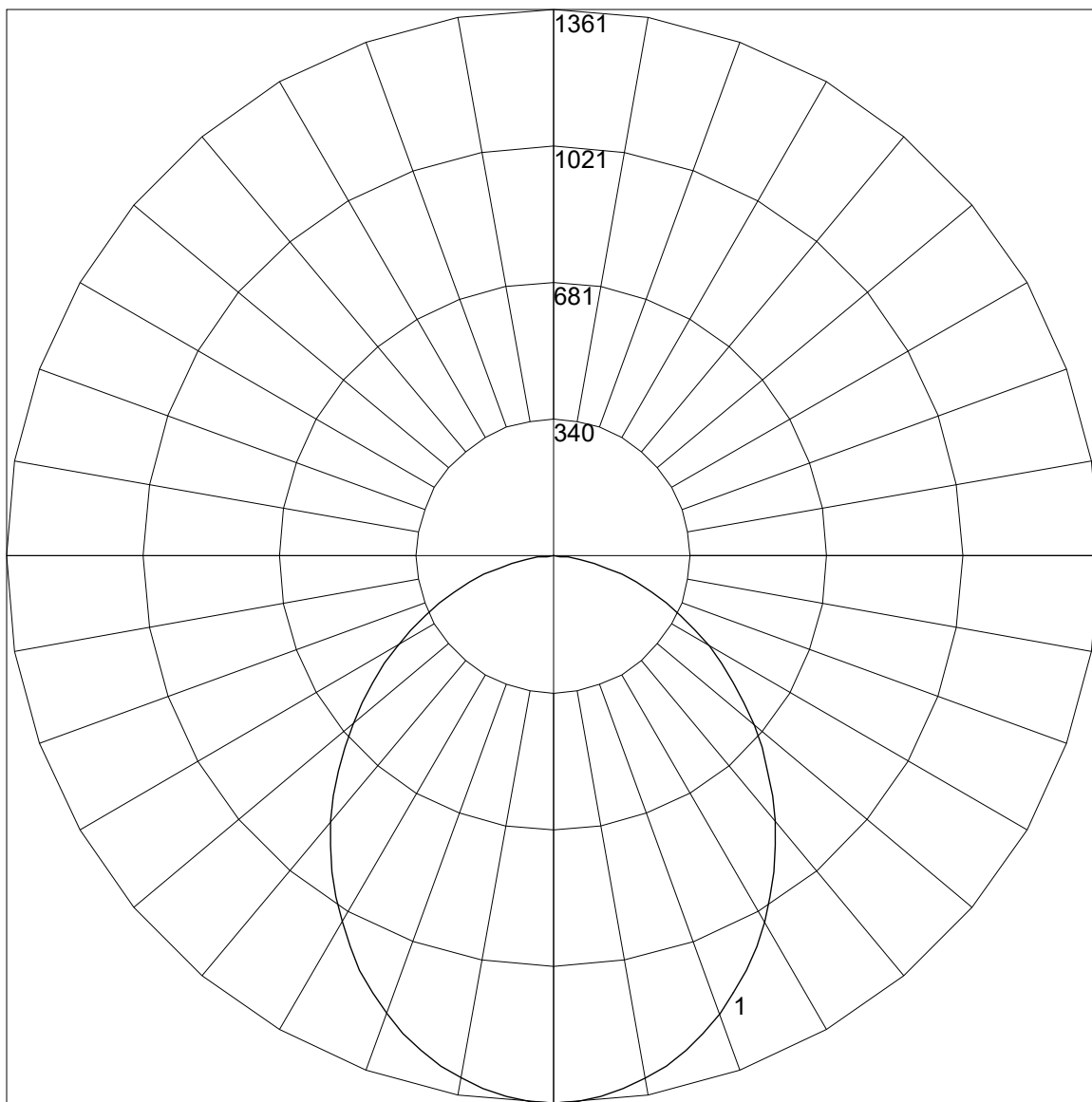
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	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 = 1361.139 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)