

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-2X4-DCO-S-8-35-ITL85151.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85151.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-2X4-DCO-S-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 26.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 28.0 WATTS

[ABSOLUTE]LUMENS]3680

[OTHER]see www.finelite.com for source file ITL85151. 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	3680
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	26.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 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	1921	1859	1837
55	1734	1651	1637
65	1520	1431	1415
75	1267	1180	1141
85	960	854	739

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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	1507.568	1507.568	1507.568	1507.568	1507.568
2.5	1506.486	1505.946	1505.405	1505.405	1505.405
5.0	1500.540	1498.919	1498.378	1496.757	1496.216
7.5	1490.811	1488.649	1485.946	1483.243	1482.703
10.0	1475.135	1471.892	1469.189	1465.405	1464.324
12.5	1455.676	1450.270	1448.108	1443.784	1441.622
15.0	1432.973	1427.027	1423.243	1416.757	1414.054
17.5	1405.946	1397.838	1392.432	1384.324	1382.703
20.0	1373.513	1365.946	1357.838	1348.649	1347.027
22.5	1338.378	1329.730	1320.000	1309.189	1306.486
25.0	1298.378	1288.108	1277.297	1267.568	1263.784
27.5	1257.838	1244.865	1232.973	1221.622	1217.838
30.0	1211.351	1197.297	1183.784	1173.513	1169.189
32.5	1161.622	1148.108	1131.892	1122.162	1120.540
35.0	1109.189	1095.135	1079.459	1068.108	1067.568
37.5	1054.595	1039.459	1023.784	1012.973	1011.892
40.0	997.838	982.162	966.486	957.297	955.676
42.5	936.757	923.784	908.108	901.622	897.297
45.0	877.838	864.324	849.189	842.162	839.459
47.5	817.838	803.784	789.730	783.243	780.541
50.0	758.378	744.324	732.432	724.865	722.703
52.5	701.622	683.243	671.351	666.486	664.324
55.0	642.703	624.324	611.892	608.649	606.486
57.5	584.324	566.486	554.595	554.595	549.730
60.0	526.486	509.730	498.378	497.838	493.513
62.5	470.270	454.054	444.324	443.784	439.459
65.0	415.135	400.000	390.811	390.270	386.486
67.5	361.081	346.486	340.000	337.838	334.595
70.0	309.189	297.297	289.730	288.108	284.865
72.5	258.919	248.108	242.162	240.000	237.297
75.0	211.892	202.703	197.297	194.595	190.811
77.5	167.027	158.919	155.135	152.432	149.189
80.0	125.946	119.459	115.676	113.514	110.270
82.5	88.108	83.784	82.162	77.297	74.595
85.0	54.054	51.351	48.108	42.703	41.622
87.5	23.243	22.162	19.459	18.378	19.459
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-2X4-DCO-S-8-35-ITL85151.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	542.74	N.A.	14.70
0-30	1131.19	N.A.	30.70
0-40	1807.69	N.A.	49.10
0-60	3018.92	N.A.	82.00
0-80	3623.34	N.A.	98.50
0-90	3679.73	N.A.	100.00
10-90	3537.65	N.A.	96.10
20-40	1264.95	N.A.	34.40
20-50	1923.31	N.A.	52.30
40-70	1603.54	N.A.	43.60
60-80	604.42	N.A.	16.40
70-80	212.11	N.A.	5.80
80-90	56.40	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	3679.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.09
10-20	400.65
20-30	588.45
30-40	676.50
40-50	658.36
50-60	552.87
60-70	392.31
70-80	212.11
80-90	56.40
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

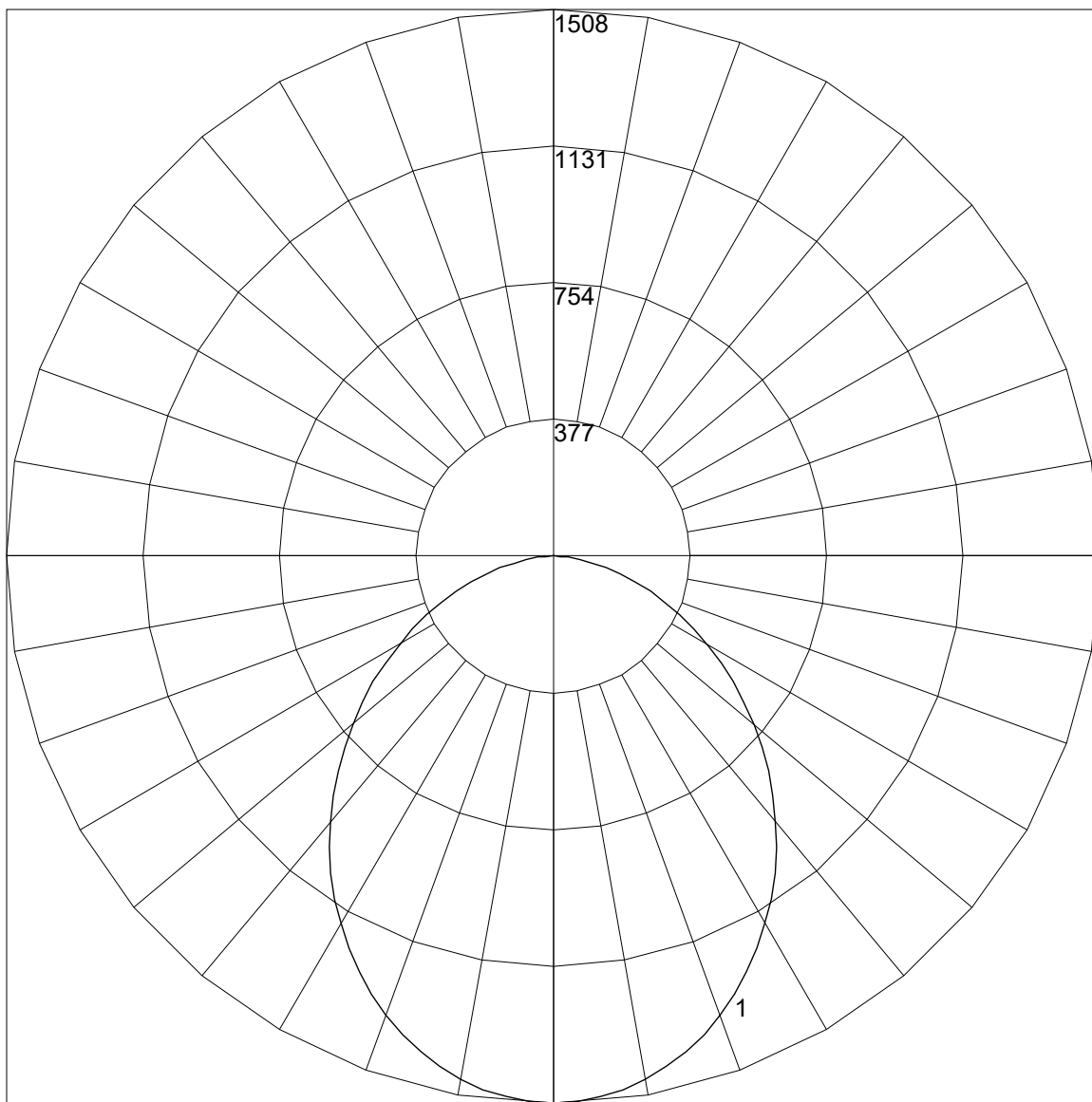
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1507.568 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)