

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-EP-ANR-2X4-DCO-S-8-35-ITL85152.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85152.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/28/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 27.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 28.1 WATTS

[ABSOLUTE]LUMENS]3648

[OTHER]see www.finelite.com for source file ITL85152. 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	3648
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	27
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
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	1856	1879	1895
55	1686	1689	1692
65	1485	1469	1445
75	1251	1193	1148
85	960	787	710

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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	1430.270	1430.270	1430.270	1430.270	1430.270
2.5	1428.649	1428.649	1428.649	1428.649	1428.649
5.0	1423.784	1423.243	1423.784	1423.784	1423.784
7.5	1414.595	1414.595	1414.595	1414.595	1415.135
10.0	1399.459	1400.000	1402.703	1402.703	1402.703
12.5	1382.703	1383.243	1387.027	1387.568	1388.108
15.0	1361.622	1361.622	1367.027	1368.108	1368.108
17.5	1335.676	1337.297	1342.162	1344.324	1345.405
20.0	1305.946	1308.649	1314.054	1316.757	1318.919
22.5	1273.513	1276.757	1282.703	1285.405	1288.108
25.0	1237.297	1240.000	1246.486	1251.351	1252.973
27.5	1197.297	1200.540	1208.649	1212.973	1215.676
30.0	1155.676	1157.838	1166.486	1171.892	1174.054
32.5	1109.730	1112.432	1121.081	1127.027	1129.730
35.0	1061.081	1063.784	1073.513	1079.459	1082.703
37.5	1010.270	1013.513	1022.703	1028.649	1032.432
40.0	957.297	960.540	969.189	975.676	978.378
42.5	903.243	906.486	914.595	920.540	923.243
45.0	848.108	850.270	858.378	863.784	865.946
47.5	792.432	793.513	800.541	805.405	806.486
50.0	736.757	736.216	742.703	747.027	747.027
52.5	681.081	678.919	684.324	688.108	687.027
55.0	624.865	623.243	625.946	628.108	627.027
57.5	568.649	566.486	567.568	569.189	567.568
60.0	513.513	509.730	510.270	510.270	508.649
62.5	458.919	455.676	456.757	454.054	450.811
65.0	405.405	402.162	401.081	397.838	394.595
67.5	354.054	349.730	347.568	343.243	342.703
70.0	303.784	298.919	295.676	290.811	289.730
72.5	255.135	249.730	246.486	241.081	239.459
75.0	209.189	203.784	199.459	193.514	191.892
77.5	165.405	160.541	155.676	149.730	148.108
80.0	124.865	120.000	115.135	108.649	107.027
82.5	88.108	83.243	78.378	70.811	68.649
85.0	54.054	50.270	44.324	39.459	40.000
87.5	23.243	21.081	18.919	18.378	18.378
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X4-DCO-S-8-35-ITL85152.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	520.11	N.A.	14.30
0-30	1093.61	N.A.	30.00
0-40	1763.46	N.A.	48.30
0-60	2983.92	N.A.	81.80
0-80	3593.61	N.A.	98.50
0-90	3648.08	N.A.	100.00
10-90	3512.88	N.A.	96.30
20-40	1243.36	N.A.	34.10
20-50	1904.26	N.A.	52.20
40-70	1617.58	N.A.	44.30
60-80	609.69	N.A.	16.70
70-80	212.57	N.A.	5.80
80-90	54.46	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	3648.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.19
10-20	384.91
20-30	573.50
30-40	669.85
40-50	660.90
50-60	559.56
60-70	397.12
70-80	212.57
80-90	54.46
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

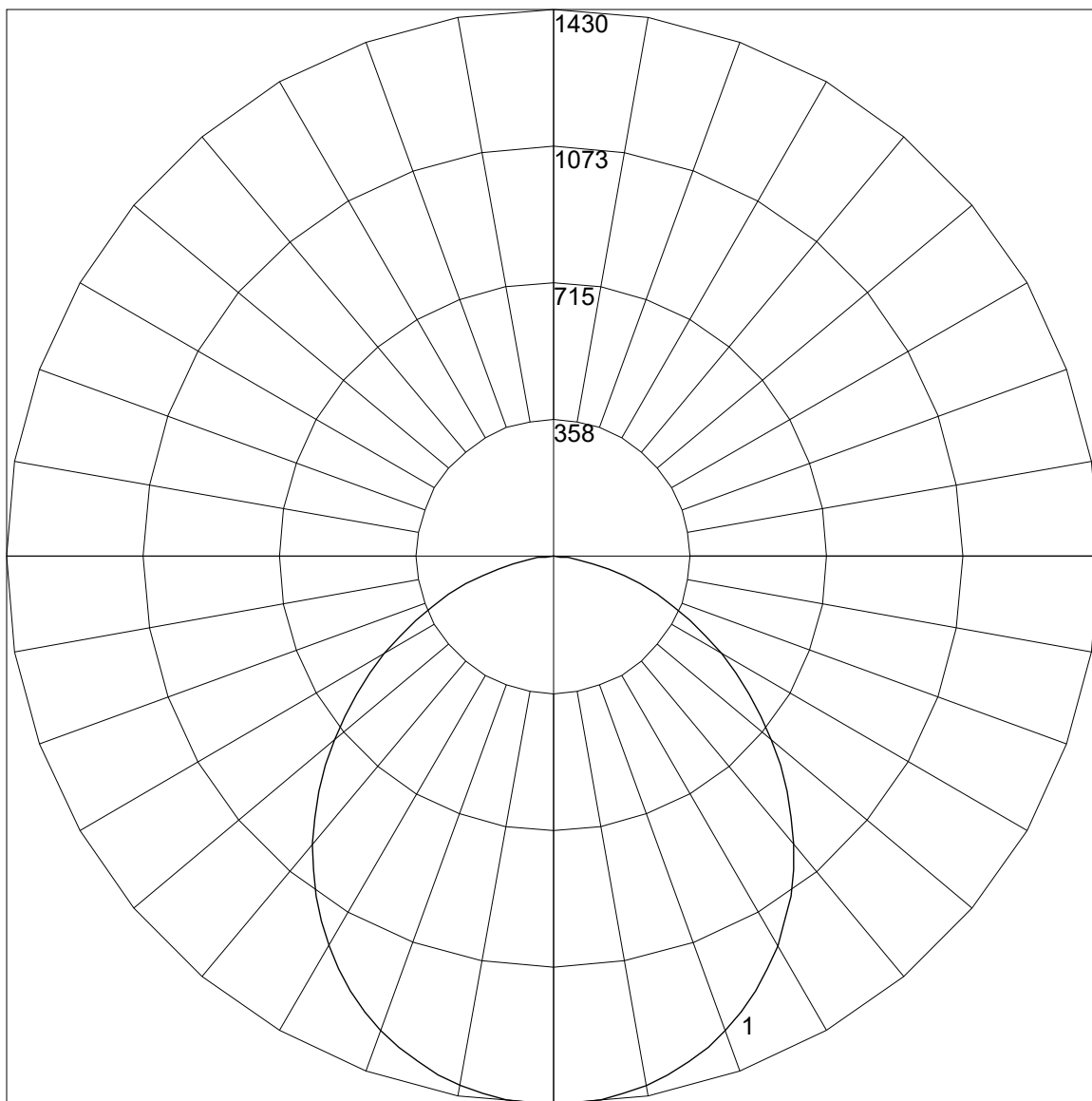
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	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	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1430.27 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)