

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-2X2-DCO-B-8-TW-ITL85150.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85150.902 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/25/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-EP-ANR-2X2-DCO-B-8-TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 41.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 42.0 WATTS

[ABSOLUTE]LUMENS]3933

[OTHER]see www.finelite.com for source file ITL85150. 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	3933
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	41
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
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	4251	4204	4213
55	4012	3955	3962
65	3690	3595	3595
75	3115	3021	3021
85	2129	2053	2002

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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	1467.750	1467.750	1467.750	1467.750	1467.750
2.5	1466.393	1467.071	1467.071	1467.071	1467.071
5.0	1461.643	1461.643	1461.643	1460.964	1460.286
7.5	1452.143	1452.143	1451.464	1450.786	1450.786
10.0	1438.571	1439.929	1437.214	1435.857	1435.179
12.5	1421.607	1420.929	1419.571	1417.536	1416.857
15.0	1399.893	1399.214	1397.857	1395.821	1395.143
17.5	1374.107	1373.429	1371.393	1370.714	1370.036
20.0	1345.607	1344.929	1342.893	1342.214	1340.857
22.5	1315.071	1312.357	1311.000	1310.321	1310.321
25.0	1281.143	1277.750	1276.393	1275.714	1275.714
27.5	1243.143	1239.750	1238.393	1238.393	1238.393
30.0	1202.429	1199.036	1197.679	1197.679	1198.357
32.5	1160.357	1156.964	1154.929	1155.607	1155.607
35.0	1116.250	1112.179	1110.143	1111.500	1111.500
37.5	1069.429	1065.357	1064.000	1064.679	1065.357
40.0	1021.929	1017.179	1015.143	1015.821	1017.179
42.5	974.429	966.964	965.607	965.607	966.964
45.0	923.536	916.071	913.357	914.036	915.393
47.5	871.286	863.143	860.429	861.107	862.464
50.0	815.643	809.536	806.821	806.821	808.857
52.5	762.036	755.250	751.857	751.179	753.893
55.0	707.071	699.607	696.893	695.536	698.250
57.5	651.429	643.964	640.571	639.214	641.250
60.0	594.429	586.286	582.893	580.179	583.571
62.5	537.429	528.607	525.214	522.500	525.893
65.0	479.071	472.286	466.857	464.143	466.857
67.5	421.393	413.929	409.179	405.786	409.179
70.0	363.714	356.250	350.821	348.786	352.179
72.5	306.714	299.250	295.179	292.464	293.821
75.0	247.679	244.286	240.214	237.500	240.214
77.5	194.071	190.000	186.607	185.929	185.929
80.0	143.857	140.464	137.750	137.750	138.429
82.5	97.714	95.679	94.321	93.643	93.643
85.0	57.000	56.321	54.964	53.607	53.607
87.5	22.393	23.071	22.393	23.071	23.071
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X2-DCO-B-8-TW-ITL85150.902.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	532.75	N.A.	13.50
0-30	1120.83	N.A.	28.50
0-40	1816.13	N.A.	46.20
0-60	3146.6	N.A.	80.00
0-80	3867.15	N.A.	98.30
0-90	3933.06	N.A.	100.00
10-90	3794.33	N.A.	96.50
20-40	1283.38	N.A.	32.60
20-50	1989.56	N.A.	50.60
40-70	1794.57	N.A.	45.60
60-80	720.55	N.A.	18.30
70-80	256.44	N.A.	6.50
80-90	65.91	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	3933.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.73
10-20	394.02
20-30	588.08
30-40	695.30
40-50	706.17
50-60	624.30
60-70	464.11
70-80	256.44
80-90	65.91
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

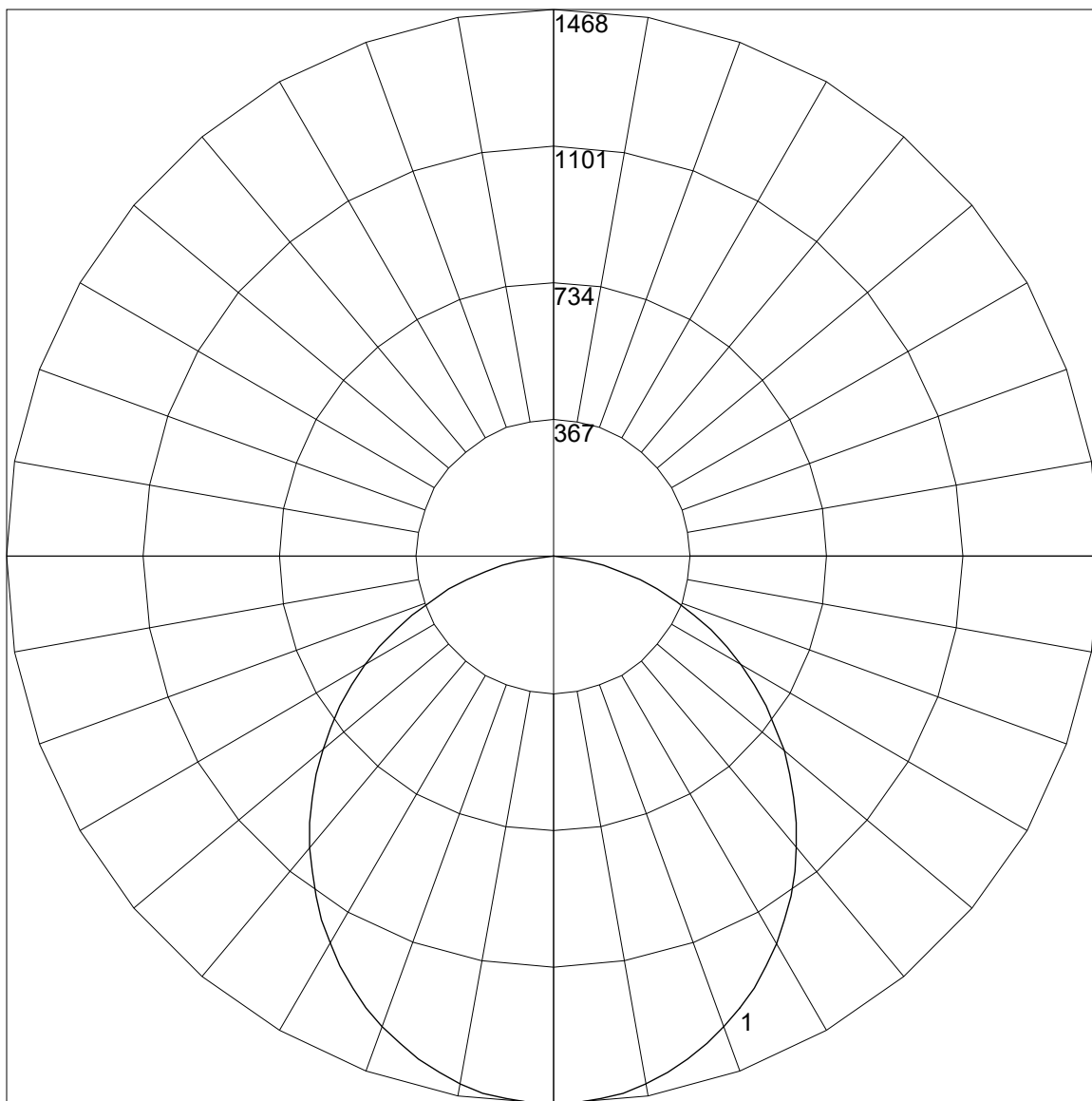
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1467.75 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)