

# 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-H-8-35-ITL85150.003.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85150.003 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-H-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 43.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.6 WATTS

[ABSOLUTE]LUMENS]4451

[OTHER]see [www.finelite.com](http://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](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	4451
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	43.1
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	4810	4757	4768
55	4540	4475	4484
65	4175	4069	4069
75	3524	3418	3418
85	2409	2323	2265

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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	1660.875	1660.875	1660.875	1660.875	1660.875
2.5	1659.339	1660.107	1660.107	1660.107	1660.107
5.0	1653.964	1653.964	1653.964	1653.196	1652.428
7.5	1643.214	1643.214	1642.446	1641.678	1641.678
10.0	1627.857	1629.393	1626.321	1624.786	1624.018
12.5	1608.661	1607.893	1606.357	1604.053	1603.286
15.0	1584.089	1583.321	1581.786	1579.482	1578.714
17.5	1554.911	1554.143	1551.839	1551.071	1550.303
20.0	1522.661	1521.893	1519.589	1518.821	1517.286
22.5	1488.107	1485.036	1483.500	1482.732	1482.732
25.0	1449.714	1445.875	1444.339	1443.571	1443.571
27.5	1406.714	1402.875	1401.339	1401.339	1401.339
30.0	1360.643	1356.803	1355.268	1355.268	1356.036
32.5	1313.036	1309.196	1306.893	1307.661	1307.661
35.0	1263.125	1258.518	1256.214	1257.750	1257.750
37.5	1210.143	1205.536	1204.000	1204.768	1205.536
40.0	1156.393	1151.018	1148.714	1149.482	1151.018
42.5	1102.643	1094.196	1092.661	1092.661	1094.196
45.0	1045.053	1036.607	1033.536	1034.303	1035.839
47.5	985.928	976.714	973.643	974.411	975.946
50.0	922.964	916.053	912.982	912.982	915.286
52.5	862.303	854.625	850.786	850.018	853.089
55.0	800.107	791.661	788.589	787.054	790.125
57.5	737.143	728.696	724.857	723.321	725.625
60.0	672.643	663.429	659.589	656.518	660.357
62.5	608.143	598.161	594.321	591.250	595.089
65.0	542.107	534.429	528.286	525.214	528.286
67.5	476.839	468.393	463.018	459.179	463.018
70.0	411.571	403.125	396.982	394.679	398.518
72.5	347.071	338.625	334.018	330.946	332.482
75.0	280.268	276.429	271.821	268.750	271.821
77.5	219.607	215.000	211.161	210.393	210.393
80.0	162.786	158.946	155.875	155.875	156.643
82.5	110.571	108.268	106.732	105.964	105.964
85.0	64.500	63.732	62.196	60.661	60.661
87.5	25.339	26.107	25.339	26.107	26.107
90.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HPR-LED-EP-ANR-2X2-DCO-H-8-35-ITL85150.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	602.84	N.A.	13.50
0-30	1268.3	N.A.	28.50
0-40	2055.09	N.A.	46.20
0-60	3560.62	N.A.	80.00
0-80	4375.98	N.A.	98.30
0-90	4450.57	N.A.	100.00
10-90	4293.59	N.A.	96.50
20-40	1452.25	N.A.	32.60
20-50	2251.34	N.A.	50.60
40-70	2030.7	N.A.	45.60
60-80	815.36	N.A.	18.30
70-80	290.19	N.A.	6.50
80-90	74.59	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	4450.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	156.98
10-20	445.86
20-30	665.46
30-40	786.79
40-50	799.09
50-60	706.44
60-70	525.17
70-80	290.19
80-90	74.59
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

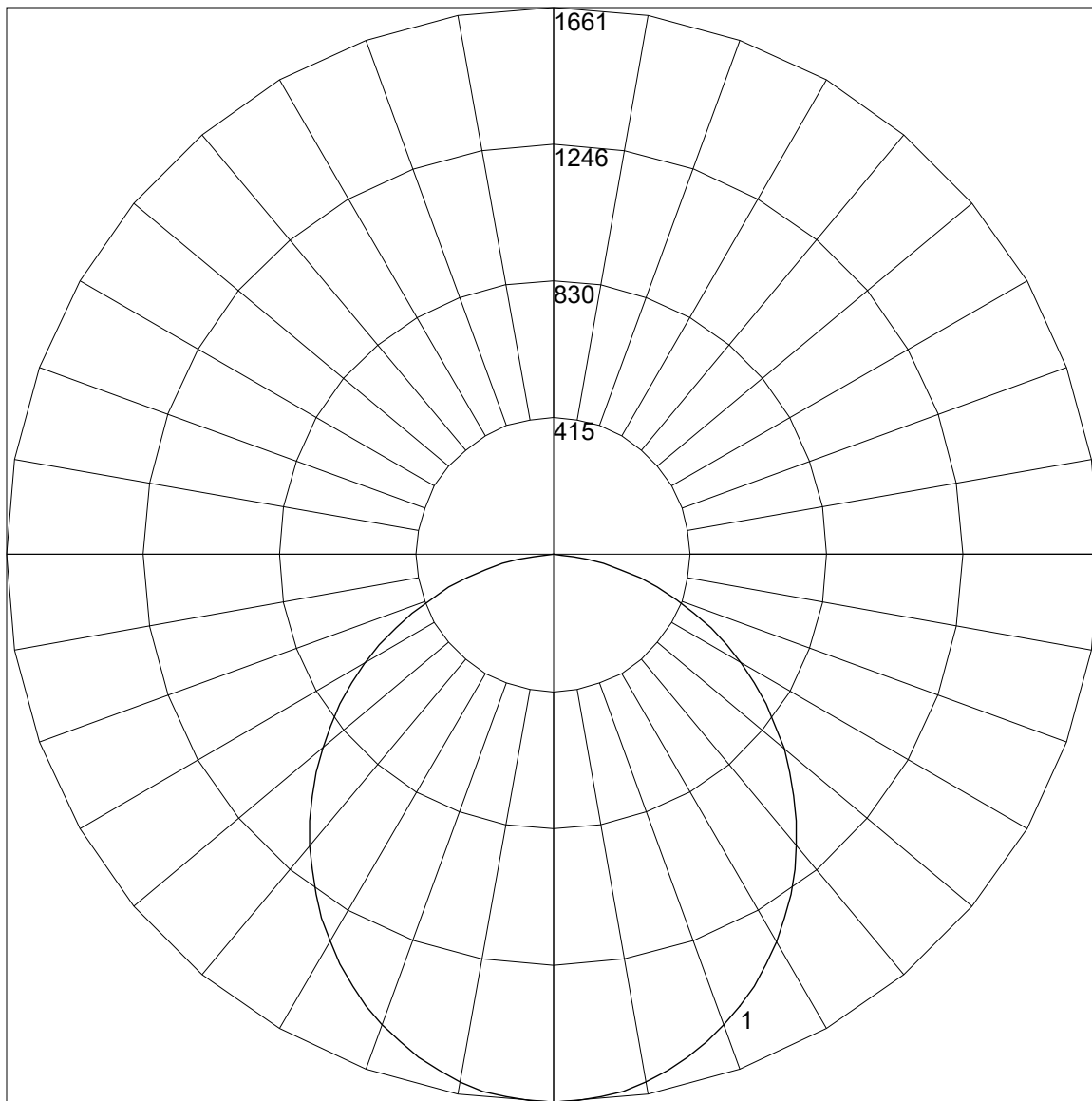
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	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 = 1660.875 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)