

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-WAV-2X2-B-8-TW-ITL85836.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85836.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/15/15
[ISSUEDATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-WAV-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, 40.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.8 WATTS
[ABSOLUTE]LUMENS]4461
[OTHER]see www.finelite.com for source file ITL85836. 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	4461
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	40.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
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	4638	4735	4832
55	4328	4444	4563
65	3961	4081	4243
75	3328	3593	3849
85	2179	2737	2914

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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	1667.250	1667.250	1667.250	1667.250	1667.250
2.5	1665.893	1666.571	1666.571	1666.571	1666.571
5.0	1659.107	1659.786	1659.786	1660.464	1661.143
7.5	1647.571	1648.250	1648.929	1650.286	1650.964
10.0	1632.643	1633.321	1634.000	1634.000	1634.679
12.5	1612.286	1611.607	1613.643	1614.321	1615.679
15.0	1583.786	1586.500	1588.536	1592.607	1593.286
17.5	1552.571	1555.286	1559.357	1564.107	1564.786
20.0	1519.321	1520.679	1526.786	1531.536	1534.929
22.5	1479.964	1482.000	1490.821	1496.250	1500.321
25.0	1438.571	1439.929	1449.429	1456.214	1462.321
27.5	1391.750	1395.821	1406.000	1414.143	1420.250
30.0	1344.929	1346.964	1359.179	1368.000	1374.107
32.5	1292.000	1296.750	1308.964	1319.143	1325.250
35.0	1238.393	1243.821	1256.714	1266.893	1275.036
37.5	1183.429	1188.857	1203.107	1213.964	1222.107
40.0	1126.429	1131.857	1146.786	1157.643	1166.464
42.5	1067.393	1073.500	1088.429	1101.321	1108.786
45.0	1007.679	1013.786	1028.714	1042.286	1049.750
47.5	947.286	953.393	969.000	980.536	990.036
50.0	886.893	892.321	908.607	920.821	929.643
52.5	825.143	830.571	846.857	859.071	867.214
55.0	762.714	768.821	783.071	796.643	804.107
57.5	699.607	706.393	719.964	732.179	741.000
60.0	639.893	641.929	656.179	668.393	677.214
62.5	574.071	580.179	593.750	606.643	614.107
65.0	514.357	517.750	529.964	542.857	551.000
67.5	451.250	454.643	466.857	481.786	487.893
70.0	385.429	390.857	405.107	420.036	426.143
72.5	324.357	329.786	344.714	357.607	365.750
75.0	264.643	269.393	285.679	297.893	306.036
77.5	206.286	213.071	227.321	240.893	247.000
80.0	151.321	158.786	172.357	184.571	189.321
82.5	101.107	108.571	120.786	129.607	132.321
85.0	58.357	63.786	73.286	76.000	78.036
87.5	23.750	26.464	29.179	27.821	27.821
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	605.50	N.A.	13.60
0-30	1272.85	N.A.	28.50
0-40	2058.42	N.A.	46.10
0-60	3551.7	N.A.	79.60
0-80	4378.83	N.A.	98.20
0-90	4461.05	N.A.	100.00
10-90	4303.43	N.A.	96.50
20-40	1452.92	N.A.	32.60
20-50	2246.27	N.A.	50.40
40-70	2018.67	N.A.	45.30
60-80	827.13	N.A.	18.50
70-80	301.74	N.A.	6.80
80-90	82.22	N.A.	1.80
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	4461.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

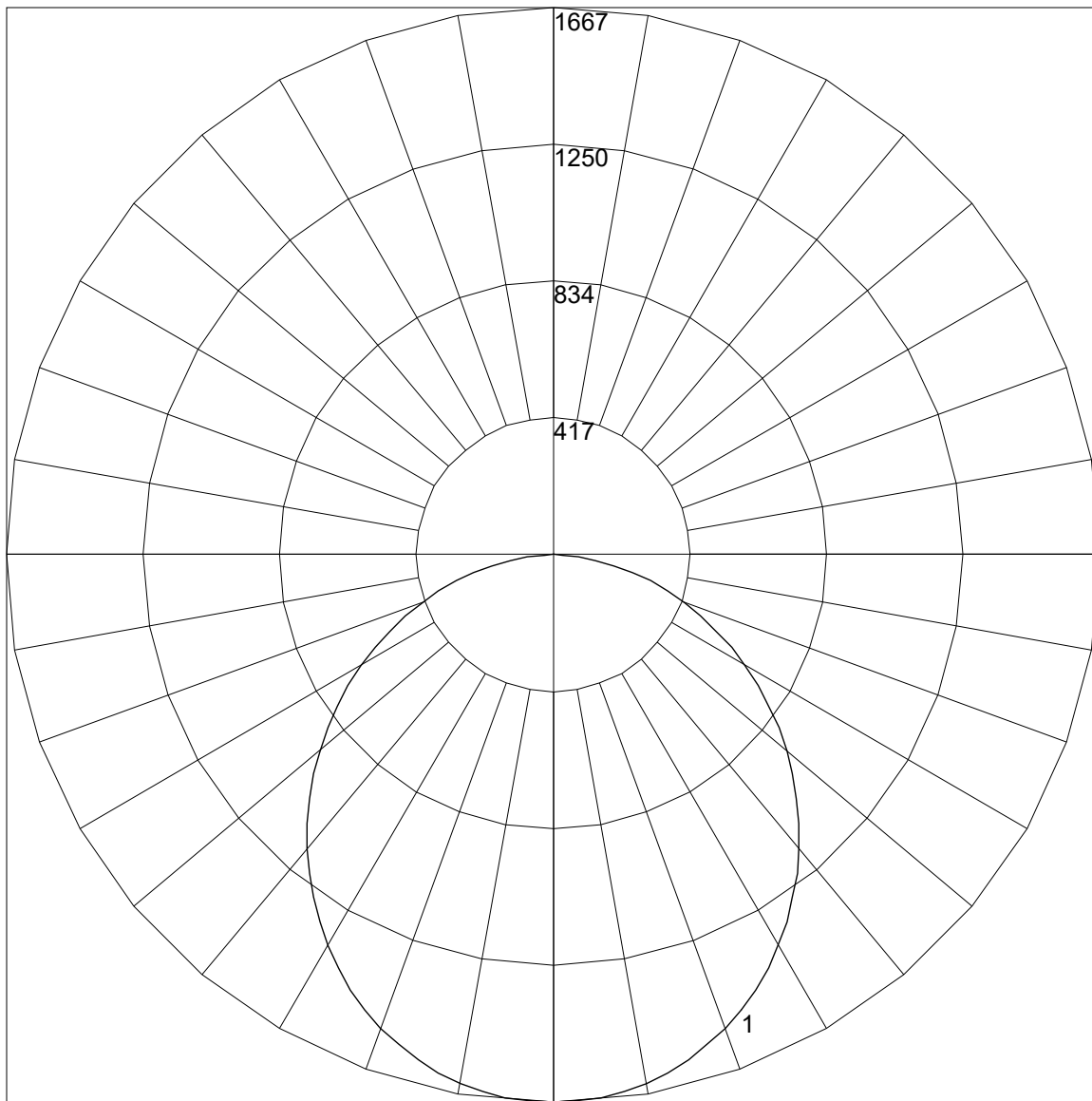
Zone	Lumens
0-10	157.62
10-20	447.88
20-30	667.34
30-40	785.57
40-50	793.36
50-60	699.93
60-70	525.38
70-80	301.74
80-90	82.22
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	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	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1667.25 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)