

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-F-2X2-DCO-B-8-TW-ITL85142.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85142.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/18/15
[ISSUEDATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-F-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, 40.8 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.8 WATTS
[ABSOLUTE]LUMENS]4367
[OTHER]see www.finelite.com for source file ITL85142. 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	4367
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	40.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
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	4607	4666	4776
55	4139	4209	4297
65	3622	3669	3752
75	3038	3046	3132
85	2281	2154	2154

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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	1746.643	1746.643	1746.643	1746.643	1746.643
2.5	1745.286	1744.607	1744.607	1744.607	1744.607
5.0	1737.821	1737.821	1737.143	1736.464	1737.143
7.5	1725.607	1724.929	1724.929	1724.250	1724.929
10.0	1709.321	1707.964	1706.607	1705.929	1705.929
12.5	1684.893	1684.214	1683.536	1684.214	1684.893
15.0	1655.714	1655.036	1656.393	1657.071	1658.429
17.5	1622.464	1621.107	1623.143	1625.179	1627.214
20.0	1582.429	1583.107	1585.821	1590.571	1592.607
22.5	1539.679	1539.679	1543.750	1549.179	1552.571
25.0	1492.179	1492.179	1497.607	1504.393	1509.143
27.5	1439.929	1439.929	1447.393	1456.893	1460.964
30.0	1382.929	1384.286	1392.429	1404.643	1408.714
32.5	1324.571	1326.607	1334.750	1349.000	1353.071
35.0	1262.821	1264.179	1273.679	1289.286	1294.036
37.5	1198.357	1200.393	1210.571	1226.857	1232.286
40.0	1131.857	1133.893	1146.786	1162.393	1167.821
42.5	1070.107	1067.393	1081.643	1096.571	1104.714
45.0	1000.893	999.536	1013.786	1029.393	1037.536
47.5	931.679	931.679	945.929	960.857	968.321
50.0	863.143	863.143	877.393	891.643	897.750
52.5	795.964	795.964	809.536	821.750	827.179
55.0	729.464	728.786	741.679	752.536	757.286
57.5	664.321	662.964	675.179	684.000	688.750
60.0	597.143	597.143	606.643	616.821	617.500
62.5	531.321	534.036	540.143	547.607	551.679
65.0	470.250	472.286	476.357	483.143	487.214
67.5	410.536	410.536	415.286	421.393	424.786
70.0	352.179	352.179	355.571	361.000	364.393
72.5	295.857	295.857	297.214	300.607	306.036
75.0	241.571	240.214	242.250	245.643	249.036
77.5	190.000	190.000	191.357	192.714	196.107
80.0	143.179	141.821	142.500	144.536	146.571
82.5	99.750	98.393	99.071	99.750	100.429
85.0	61.071	59.036	57.679	56.321	57.679
87.5	25.786	23.071	21.036	19.679	20.357
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	631.64	N.A.	14.50
0-30	1321.31	N.A.	30.30
0-40	2118.97	N.A.	48.50
0-60	3565.48	N.A.	81.60
0-80	4298.89	N.A.	98.40
0-90	4367.12	N.A.	100.00
10-90	4202.24	N.A.	96.20
20-40	1487.33	N.A.	34.10
20-50	2270.35	N.A.	52.00
40-70	1920.53	N.A.	44.00
60-80	733.41	N.A.	16.80
70-80	259.39	N.A.	5.90
80-90	68.23	N.A.	1.60
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	4367.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.87
10-20	466.76
20-30	689.68
30-40	797.66
40-50	783.02
50-60	663.49
60-70	474.02
70-80	259.39
80-90	68.23
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

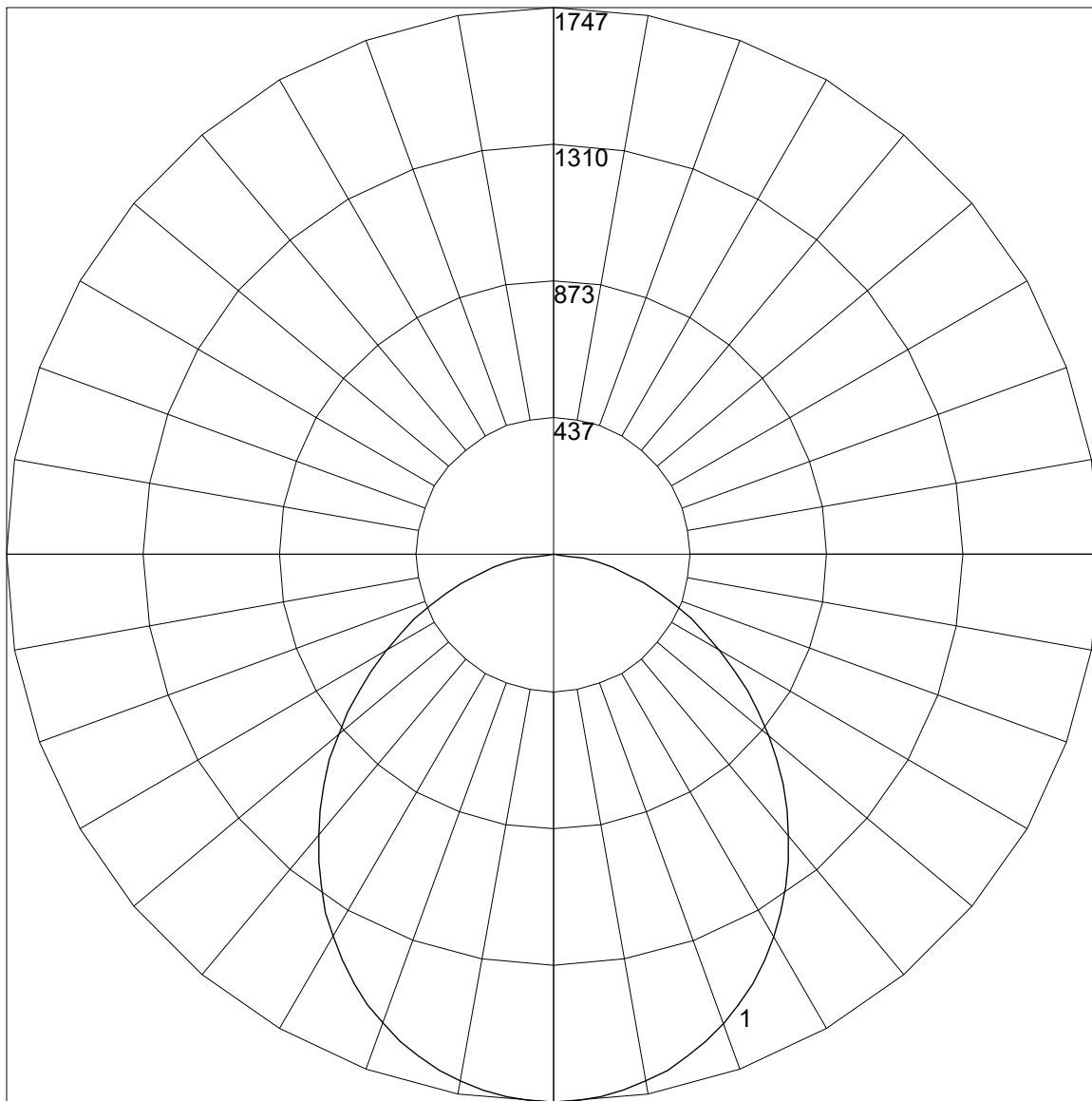
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	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	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	45	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1746.643 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)