

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-2X4-DD-B-8-TW-ITL85156.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85156.902 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/01/15

[ISSUEDATE]04/28/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-2X4-DD-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, 38.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 39.8 WATTS

[ABSOLUTE]LUMENS]3867

[OTHER]see www.finelite.com for source file ITL85156. 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	3867
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	38.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.80 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1970	1963	1948
55	1774	1769	1756
65	1569	1564	1557
75	1316	1328	1324
85	1032	1044	1032

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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	1560.896	1560.896	1560.896	1560.896	1560.896
2.5	1558.857	1558.857	1558.857	1558.857	1558.857
5.0	1551.382	1552.062	1551.382	1552.062	1552.062
7.5	1540.510	1540.510	1539.830	1539.830	1540.510
10.0	1522.162	1522.842	1523.521	1523.521	1524.880
12.5	1499.058	1500.417	1502.456	1501.776	1501.097
15.0	1473.915	1474.595	1475.954	1473.915	1473.915
17.5	1443.336	1444.015	1444.695	1443.336	1443.336
20.0	1410.718	1409.359	1410.039	1408.000	1408.000
22.5	1371.305	1369.266	1369.946	1367.228	1367.907
25.0	1329.174	1327.135	1326.456	1324.417	1324.417
27.5	1283.645	1280.247	1280.927	1278.209	1277.529
30.0	1234.718	1232.680	1231.321	1229.282	1227.243
32.5	1181.035	1181.035	1179.676	1177.637	1175.598
35.0	1129.390	1125.992	1124.633	1121.915	1119.876
37.5	1072.988	1069.591	1068.232	1066.873	1064.154
40.0	1013.869	1011.830	1009.792	1008.432	1005.714
42.5	954.749	952.710	950.672	949.313	943.876
45.0	894.950	891.552	891.552	889.514	884.757
47.5	834.471	831.753	831.073	829.035	824.278
50.0	775.351	771.954	769.915	769.915	765.158
52.5	715.552	711.475	711.475	709.436	705.359
55.0	653.714	652.355	651.676	647.598	646.919
57.5	595.274	595.274	593.236	589.838	588.479
60.0	537.514	536.834	535.475	532.757	530.718
62.5	481.792	482.471	480.432	477.035	480.432
65.0	426.070	426.070	424.710	421.992	422.672
67.5	371.707	372.386	371.027	368.309	368.988
70.0	319.382	320.062	319.382	316.664	318.023
72.5	267.737	269.097	268.417	267.737	267.737
75.0	218.811	220.849	220.849	220.170	220.170
77.5	175.320	175.320	175.320	175.320	175.320
80.0	133.189	132.510	133.189	133.189	133.869
82.5	93.776	93.776	94.456	94.456	94.456
85.0	57.761	57.761	58.440	57.761	57.761
87.5	26.502	24.463	25.143	24.463	22.425
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	562.69	N.A.	14.60
0-30	1173.04	N.A.	30.30
0-40	1875.84	N.A.	48.50
0-60	3145.46	N.A.	81.30
0-80	3801.01	N.A.	98.30
0-90	3867.2	N.A.	100.00
10-90	3719.97	N.A.	96.20
20-40	1313.15	N.A.	34.00
20-50	2000.19	N.A.	51.70
40-70	1690.55	N.A.	43.70
60-80	655.55	N.A.	17.00
70-80	234.62	N.A.	6.10
80-90	66.19	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	3867.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.23
10-20	415.46
20-30	610.34
30-40	702.80
40-50	687.04
50-60	582.57
60-70	420.94
70-80	234.62
80-90	66.19
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

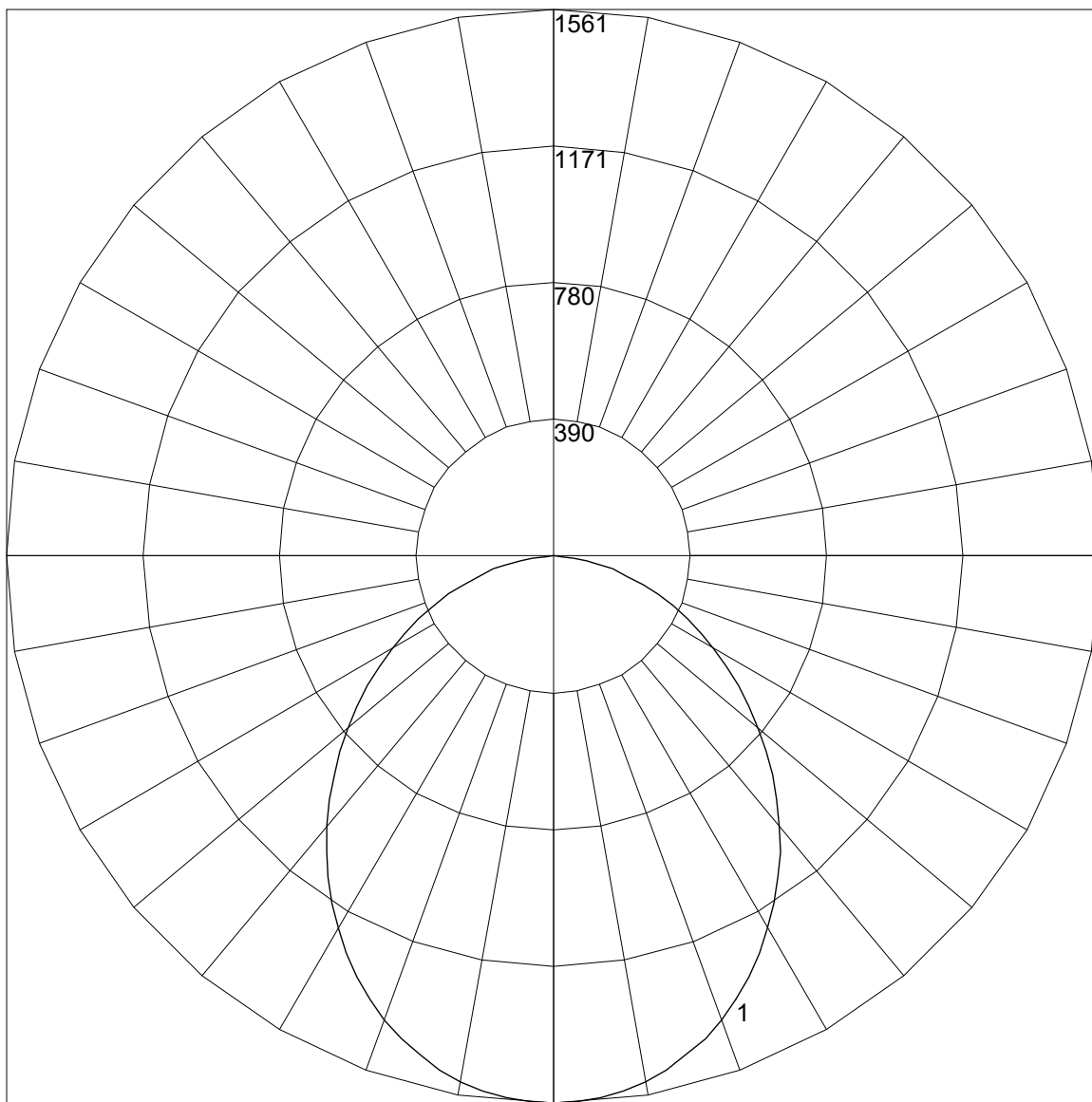
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	106	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	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	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	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	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1560.896 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)