

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-SL-LED-2X4-B-835-5155.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]HPR-SL-LED-2X4-B-835-5155.002
[TESTLAB] 4141 S. Pulaski Rd Goniophotometer Lab
[TESTDATE]01/04/2024
[ISSUE DATE]03/19/2024
[MANUFAC]FINELITE, Inc.
[LUMCAT]FINELITE HPR-SL-LED-2X4-B-835-5155
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 30.6 WATTS
[ABSOLUTE LUMENS]4605
[OTHER]see www.finelite.com for source file 5155. 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	4605
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	30.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1937	2098	2258
55	1832	2009	2157
65	1682	1812	1918
75	1442	1500	1548
85	1030	755	835

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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	1592.945	1592.945	1592.945	1592.945	1592.945
2.5	1592.105	1587.350	1591.037	1594.835	1592.247
5.0	1586.059	1581.671	1586.171	1589.200	1587.118
7.5	1576.559	1572.309	1577.290	1581.294	1580.030
10.0	1563.021	1558.606	1564.777	1570.455	1569.330
12.5	1545.712	1542.318	1549.749	1557.521	1556.476
15.0	1524.095	1521.797	1531.668	1540.808	1542.567
17.5	1499.611	1498.007	1510.847	1523.067	1526.451
20.0	1471.096	1471.204	1486.670	1504.117	1509.432
22.5	1438.621	1441.139	1460.895	1483.037	1490.272
25.0	1403.554	1407.713	1432.959	1460.143	1469.590
27.5	1365.087	1371.504	1402.554	1434.806	1447.279
30.0	1324.312	1332.232	1369.367	1407.713	1422.417
32.5	1279.020	1289.919	1333.603	1377.395	1395.308
35.0	1232.050	1245.130	1293.532	1343.576	1364.272
37.5	1182.326	1197.108	1251.944	1306.389	1328.140
40.0	1130.395	1147.027	1205.763	1263.591	1287.081
42.5	1075.303	1094.591	1156.696	1216.682	1239.977
45.0	1018.944	1039.364	1103.667	1164.724	1187.961
47.5	963.703	981.983	1047.065	1106.858	1129.064
50.0	904.112	922.884	987.585	1044.517	1064.819
52.5	842.664	861.938	924.859	976.490	995.535
55.0	781.576	799.782	857.385	904.715	920.559
57.5	720.030	735.348	788.168	829.695	843.810
60.0	657.961	670.199	716.057	752.057	764.186
62.5	592.832	604.220	643.479	673.830	683.621
65.0	528.896	538.262	569.669	594.119	603.115
67.5	466.386	473.032	498.185	517.110	523.734
70.0	403.477	406.910	426.841	441.781	446.398
72.5	340.178	341.692	356.511	367.001	370.291
75.0	277.695	279.016	288.736	296.053	298.019
77.5	218.325	218.450	224.276	228.227	229.141
80.0	163.341	162.132	165.524	165.753	165.843
82.5	112.776	110.802	111.044	108.304	106.778
85.0	66.814	57.010	48.982	58.977	54.131
87.5	11.312	11.196	10.861	10.710	10.725
90.0	1.833	1.726	1.619	1.708	1.862
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	583.30	N.A.	12.70
0-30	1244.75	N.A.	27.00
0-40	2054.81	N.A.	44.60
0-60	3666.07	N.A.	79.60
0-80	4534.13	N.A.	98.50
0-90	4604.92	N.A.	100.00
10-90	4454.19	N.A.	96.70
20-40	1471.51	N.A.	32.00
20-50	2321.13	N.A.	50.40
40-70	2173.14	N.A.	47.20
60-80	868.05	N.A.	18.80
70-80	306.18	N.A.	6.60
80-90	70.79	N.A.	1.50
90-110	0.24	N.A.	0.00
90-120	0.24	N.A.	0.00
90-130	0.24	N.A.	0.00
90-150	0.24	N.A.	0.00
90-180	0.24	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4605.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.73
10-20	432.58
20-30	661.45
30-40	810.06
40-50	849.62
50-60	761.64
60-70	561.87
70-80	306.18
80-90	70.79
90-100	0.24
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

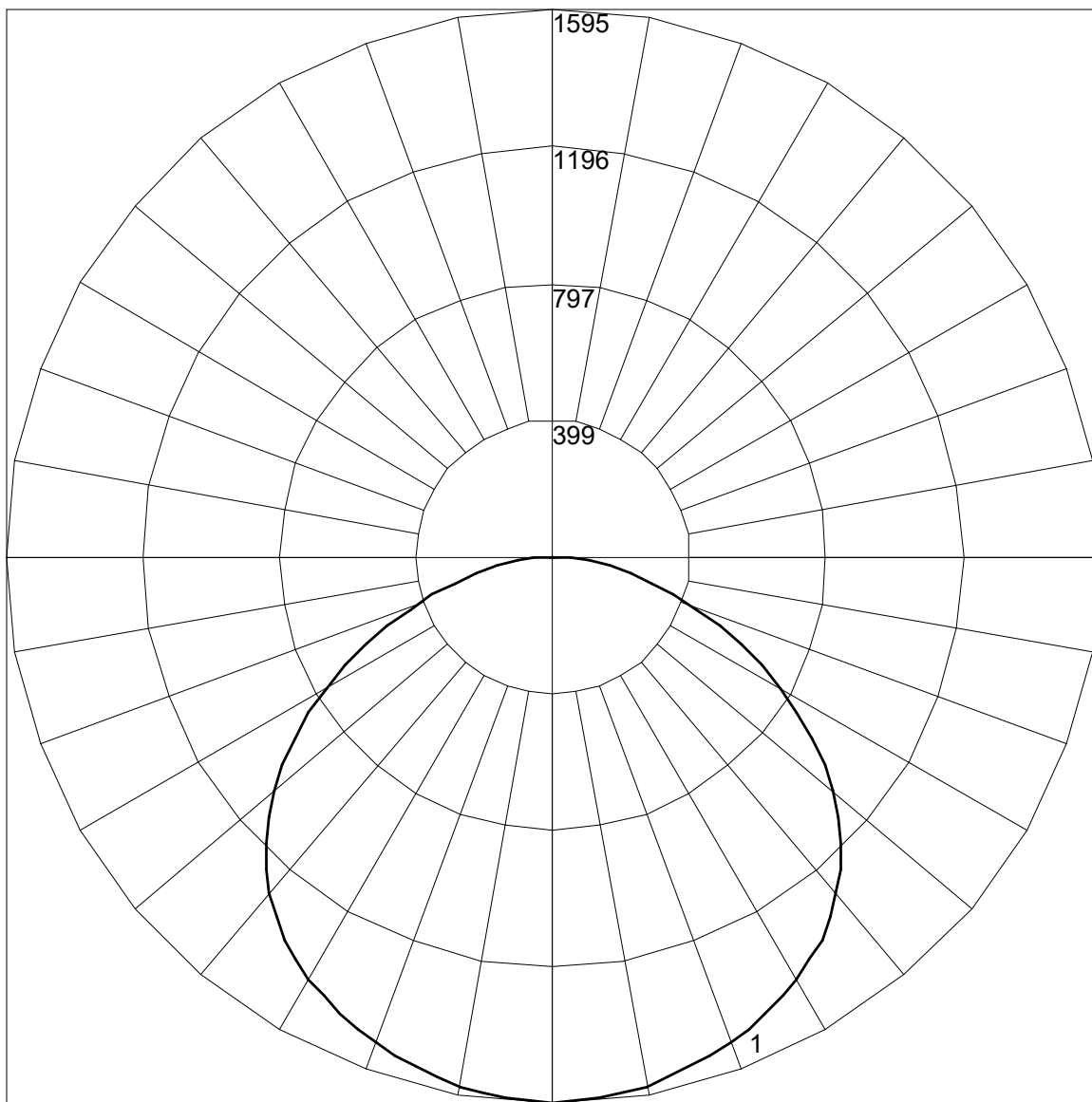
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1594.835 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)