

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-V-835-5155.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]HPR-SL-LED-2X4-V-835-5155
[TESTLAB] 4141 S. Pulaski Rd Goniophotometer Lab
[TESTDATE]01/04/2024
[ISSUEDATE]03/19/2024
[MANUFAC]FINELITE, Inc.
[LUMCAT]FINELITE HPR-SL-LED-2X4-V-835-5155
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 45.7 WATTS
[ABSOLUTE]LUMENS]6832

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6832
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	45.7
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	2874	3113	3350
55	2718	2981	3201
65	2496	2688	2846
75	2140	2225	2296
85	1529	1121	1239

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPR-SL-LED-2X4-V-835-5155.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2363.301	2363.301	2363.301	2363.301	2363.301
2.5	2362.055	2355.000	2360.470	2366.105	2362.265
5.0	2353.085	2346.575	2353.250	2357.745	2354.655
7.5	2338.990	2332.685	2340.075	2346.015	2344.140
10.0	2318.905	2312.355	2321.510	2329.935	2328.265
12.5	2293.225	2288.190	2299.215	2310.745	2309.195
15.0	2261.155	2257.745	2272.390	2285.950	2288.560
17.5	2224.830	2222.450	2241.500	2259.630	2264.650
20.0	2182.525	2182.685	2205.630	2231.515	2239.400
22.5	2134.345	2138.080	2167.390	2200.240	2210.975
25.0	2082.320	2088.490	2125.945	2166.275	2180.290
27.5	2025.250	2034.770	2080.835	2128.685	2147.190
30.0	1964.755	1976.505	2031.600	2088.490	2110.305
32.5	1897.560	1913.730	1978.540	2043.510	2070.085
35.0	1827.875	1847.280	1919.090	1993.335	2024.040
37.5	1754.105	1776.035	1857.390	1938.165	1970.435
40.0	1677.060	1701.735	1788.875	1874.670	1909.520
42.5	1595.325	1623.940	1716.080	1805.075	1839.635
45.0	1511.710	1542.005	1637.405	1727.990	1762.465
47.5	1429.755	1456.875	1553.430	1642.140	1675.085
50.0	1341.345	1369.195	1465.185	1549.650	1579.770
52.5	1250.180	1278.775	1372.125	1448.725	1476.980
55.0	1159.550	1186.560	1272.020	1342.240	1365.745
57.5	1068.240	1090.965	1169.330	1230.940	1251.880
60.0	976.154	994.311	1062.345	1115.755	1133.750
62.5	879.529	896.424	954.668	999.697	1014.223
65.0	784.673	798.568	845.164	881.437	894.784
67.5	691.932	701.792	739.110	767.187	777.014
70.0	598.600	603.694	633.264	655.428	662.278
72.5	504.690	506.936	528.922	544.484	549.365
75.0	411.990	413.950	428.370	439.226	442.142
77.5	323.908	324.094	332.737	338.599	339.954
80.0	242.334	240.540	245.572	245.912	246.046
82.5	167.315	164.387	164.746	160.681	158.417
85.0	99.126	84.581	72.670	87.499	80.309
87.5	16.782	16.610	16.114	15.890	15.911
90.0	2.719	2.560	2.402	2.534	2.763
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPR-SL-LED-2X4-V-835-5155.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPR-SL-LED-2X4-V-835-5155.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	865.39	N.A.	12.70
0-30	1846.72	N.A.	27.00
0-40	3048.53	N.A.	44.60
0-60	5439.00	N.A.	79.60
0-80	6726.85	N.A.	98.50
0-90	6831.88	N.A.	100.00
10-90	6608.26	N.A.	96.70
20-40	2183.14	N.A.	32.00
20-50	3443.63	N.A.	50.40
40-70	3224.07	N.A.	47.20
60-80	1287.85	N.A.	18.80
70-80	454.25	N.A.	6.60
80-90	105.03	N.A.	1.50
90-110	0.35	N.A.	0.00
90-120	0.35	N.A.	0.00
90-130	0.35	N.A.	0.00
90-150	0.35	N.A.	0.00
90-180	0.35	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6832.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	223.62
10-20	641.77
20-30	981.33
30-40	1201.81
40-50	1260.5
50-60	1129.98
60-70	833.60
70-80	454.25
80-90	105.03
90-100	0.35
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

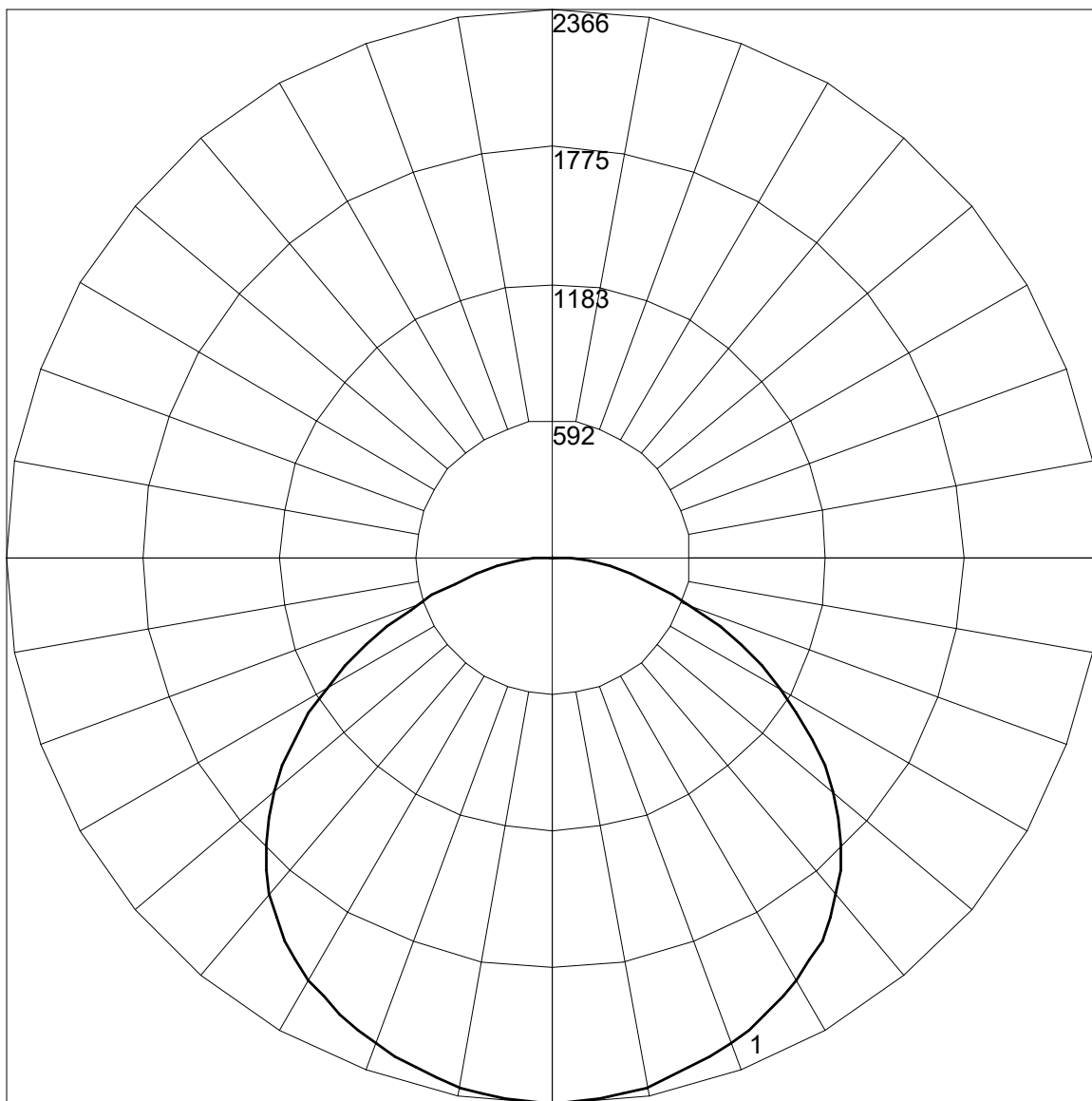
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPR-SL-LED-2X4-V-835-5155.IES

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 = 2366.105 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)