

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-2X2-V-835-5157.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]HPR-SL-LED-2X2-V-835-5157
[TESTLAB] 4141 S. Pulaski Rd. Goniophotometer Lab
[TESTDATE]03/19/2024
[ISSUE DATE]01/05/2024
[MANUFAC]Finelite, Inc.
[LUMCAT]FINELITE HPR-SL-LED-2X2-V-835-5157
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.7 WATTS
[ABSOLUTE LUMENS]6209

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	46.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	5178	5538	6064
55	4875	5278	5809
65	4453	4746	5163
75	3797	3914	4157
85	4394	5394	5021

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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	2172.316	2172.316	2172.316	2172.316	2172.316
2.5	2178.215	2168.920	2165.815	2167.180	2170.790
5.0	2169.410	2160.185	2157.280	2159.275	2162.760
7.5	2154.790	2144.805	2143.600	2146.795	2151.515
10.0	2134.310	2124.380	2125.275	2130.830	2136.210
12.5	2108.225	2099.690	2103.065	2110.930	2118.130
15.0	2076.925	2069.035	2075.680	2088.250	2097.270
17.5	2040.480	2033.625	2044.925	2062.175	2074.145
20.0	1999.280	1993.865	2010.460	2034.165	2048.955
22.5	1952.960	1949.840	1972.360	2003.170	2020.645
25.0	1901.940	1901.620	1931.535	1969.060	1990.125
27.5	1847.015	1849.260	1886.240	1932.250	1958.685
30.0	1788.740	1792.910	1838.130	1892.830	1922.825
32.5	1726.180	1732.520	1784.285	1848.845	1882.990
35.0	1658.985	1668.165	1727.205	1800.860	1839.340
37.5	1588.525	1600.155	1666.125	1746.100	1789.035
40.0	1515.345	1529.230	1600.120	1686.415	1730.815
42.5	1439.395	1454.600	1530.250	1619.725	1666.670
45.0	1361.835	1377.820	1456.655	1548.000	1594.945
47.5	1283.020	1300.115	1380.500	1470.935	1516.800
50.0	1205.765	1219.605	1299.565	1387.125	1429.915
52.5	1123.575	1137.470	1214.915	1297.270	1338.255
55.0	1040.080	1052.300	1126.070	1201.080	1239.410
57.5	955.870	966.601	1033.780	1101.555	1135.380
60.0	869.914	879.548	940.214	999.214	1028.825
62.5	791.697	790.423	843.709	894.652	920.612
65.0	699.980	701.437	746.109	789.808	811.567
67.5	614.908	613.954	650.924	686.163	703.572
70.0	532.000	528.577	557.136	584.031	598.496
72.5	448.038	442.842	464.794	485.531	496.466
75.0	365.582	362.099	376.841	391.693	400.240
77.5	286.759	284.599	292.772	301.913	308.021
80.0	214.768	211.696	215.082	219.555	223.031
82.5	148.764	144.833	144.792	143.974	140.663
85.0	142.442	184.422	174.857	164.664	162.758
87.5	143.633	138.561	129.017	121.890	127.019
90.0	19.946	19.027	19.648	19.528	21.785
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	792.39	N.A.	12.80
0-30	1685.5	N.A.	27.10
0-40	2771.22	N.A.	44.60
0-60	4909.33	N.A.	79.10
0-80	6053.12	N.A.	97.50
0-90	6206.52	N.A.	100.00
10-90	6001.28	N.A.	96.70
20-40	1978.82	N.A.	31.90
20-50	3108.31	N.A.	50.10
40-70	2879.52	N.A.	46.40
60-80	1143.79	N.A.	18.40
70-80	402.38	N.A.	6.50
80-90	153.40	N.A.	2.50
90-110	2.71	N.A.	0.00
90-120	2.71	N.A.	0.00
90-130	2.71	N.A.	0.00
90-150	2.71	N.A.	0.00
90-180	2.71	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6209.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	205.24
10-20	587.16
20-30	893.10
30-40	1085.72
40-50	1129.49
50-60	1008.62
60-70	741.41
70-80	402.38
80-90	153.40
90-100	2.71
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

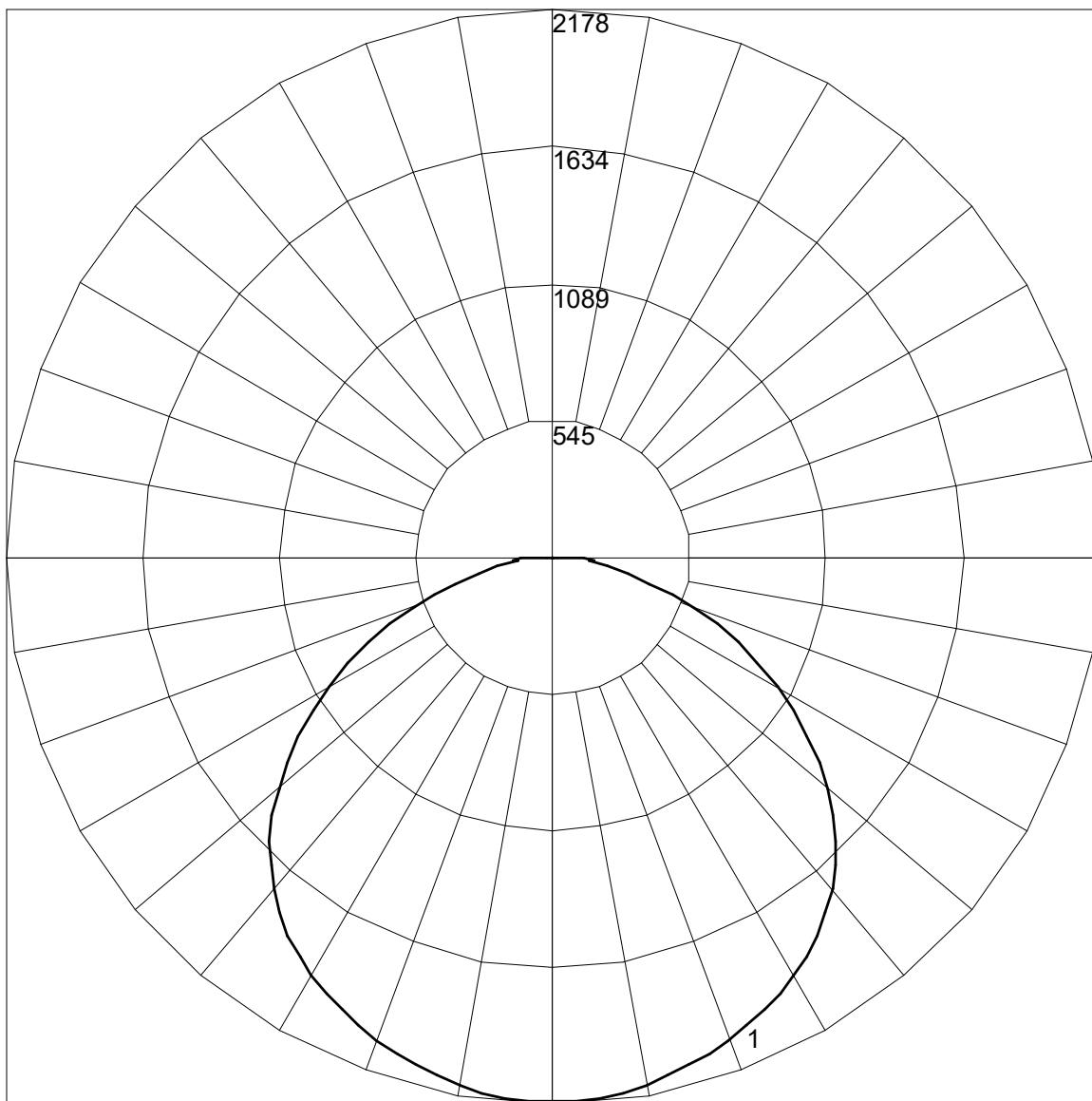
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	84	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	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	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	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	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2178.215 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)