

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-S-835-5157.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]HPR-SL-LED-2X2-S-835-5157.003
[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-S-835-5157
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 23.7 WATTS
[ABSOLUTE LUMENS]3448
[OTHER]see www.finelite.com for source file 5157. 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	3448
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	23.7
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	2875	3076	3368
55	2707	2931	3226
65	2473	2636	2867
75	2109	2174	2309
85	2440	2995	2788

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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	1206.337	1206.337	1206.337	1206.337	1206.337
2.5	1209.613	1204.451	1202.727	1203.485	1205.490
5.0	1204.723	1199.600	1197.987	1199.095	1201.030
7.5	1196.604	1191.060	1190.390	1192.165	1194.786
10.0	1185.231	1179.717	1180.214	1183.299	1186.287
12.5	1170.746	1166.006	1167.880	1172.248	1176.246
15.0	1153.364	1148.983	1152.673	1159.653	1164.662
17.5	1133.125	1129.319	1135.594	1145.173	1151.820
20.0	1110.246	1107.239	1116.455	1129.619	1137.832
22.5	1084.524	1082.791	1095.297	1112.406	1122.111
25.0	1056.191	1056.013	1072.626	1093.464	1105.162
27.5	1025.690	1026.937	1047.472	1073.023	1087.703
30.0	993.328	995.644	1020.756	1051.132	1067.789
32.5	958.587	962.108	990.855	1026.706	1045.668
35.0	921.273	926.370	959.157	1000.059	1021.428
37.5	882.144	888.603	925.238	969.649	993.492
40.0	841.506	849.217	888.583	936.505	961.161
42.5	799.329	807.773	849.783	899.471	925.540
45.0	756.258	765.135	808.914	859.640	885.710
47.5	712.491	721.984	766.623	816.844	842.314
50.0	669.589	677.275	721.678	770.302	794.065
52.5	623.947	631.663	674.670	720.404	743.164
55.0	577.580	584.366	625.333	666.987	688.273
57.5	530.817	536.776	574.082	611.719	630.503
60.0	483.083	488.433	522.122	554.887	571.330
62.5	439.648	438.940	468.531	496.821	511.237
65.0	388.715	389.524	414.331	438.599	450.682
67.5	341.473	340.943	361.473	381.042	390.710
70.0	295.432	293.531	309.390	324.326	332.359
72.5	248.806	245.920	258.111	269.627	275.699
75.0	203.016	201.082	209.268	217.516	222.262
77.5	159.244	158.044	162.583	167.659	171.051
80.0	119.266	117.560	119.440	121.924	123.854
82.5	82.612	80.429	80.406	79.952	78.113
85.0	79.101	102.414	97.102	91.442	90.383
87.5	79.763	76.946	71.646	67.688	70.537
90.0	11.076	10.566	10.911	10.844	12.098
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	440.03	N.A.	12.80
0-30	936.00	N.A.	27.10
0-40	1538.92	N.A.	44.60
0-60	2726.26	N.A.	79.10
0-80	3361.44	N.A.	97.50
0-90	3446.62	N.A.	100.00
10-90	3332.65	N.A.	96.70
20-40	1098.89	N.A.	31.90
20-50	1726.12	N.A.	50.10
40-70	1599.07	N.A.	46.40
60-80	635.17	N.A.	18.40
70-80	223.45	N.A.	6.50
80-90	85.19	N.A.	2.50
90-110	1.50	N.A.	0.00
90-120	1.50	N.A.	0.00
90-130	1.50	N.A.	0.00
90-150	1.50	N.A.	0.00
90-180	1.50	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3448.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.97
10-20	326.06
20-30	495.96
30-40	602.92
40-50	627.23
50-60	560.11
60-70	411.72
70-80	223.45
80-90	85.19
90-100	1.50
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

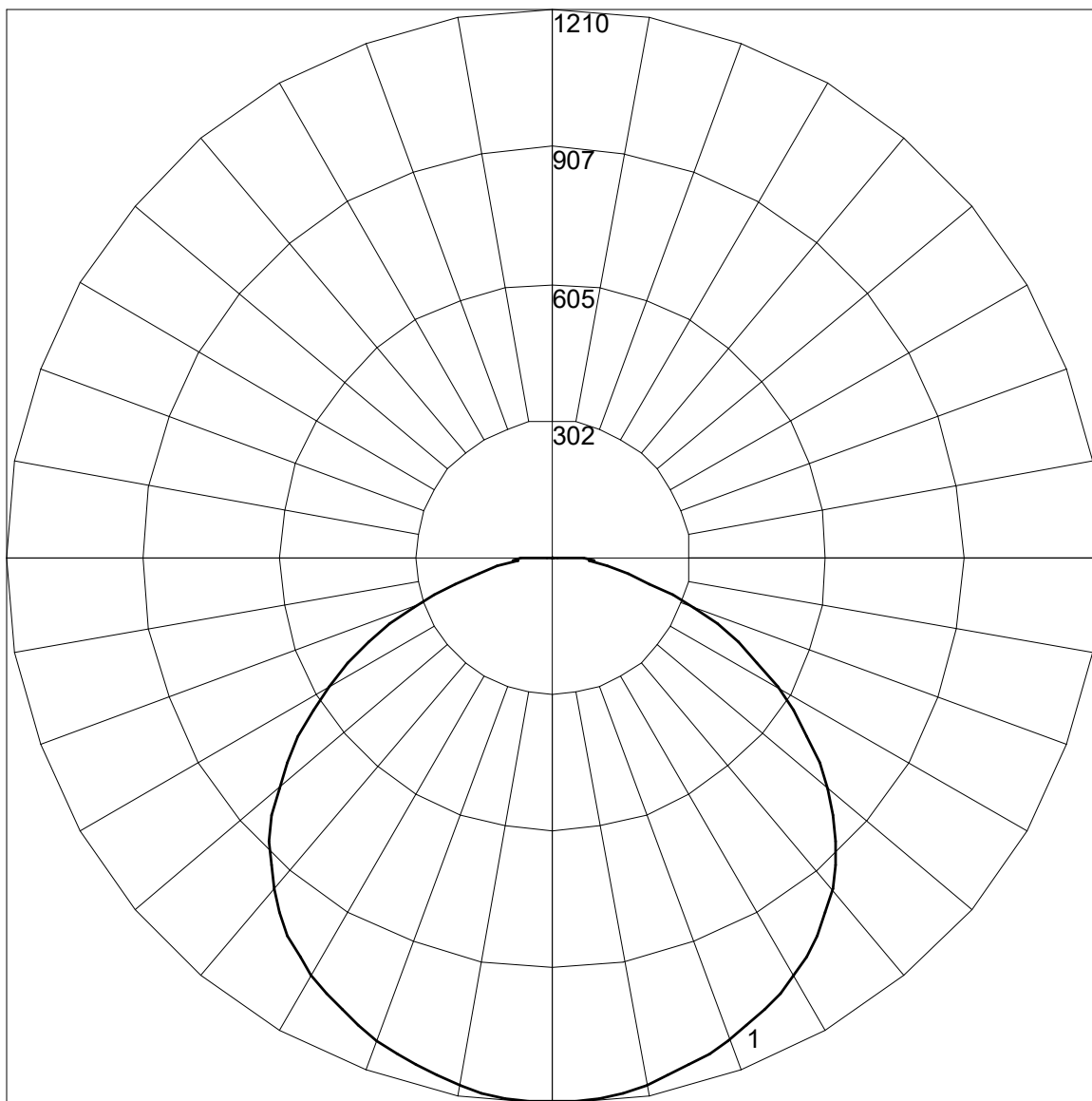
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1209.613 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)