

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-S-835-5155.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]HPR-SL-LED-2X4-B-835-5155.003
[TESTLAB] 4141 S. Pulaski Rd Goniophotometer Lab
[TESTDATE]01/04/2024
[ISSUEDATE]03/19/2024
[MANUFAC]FINELITE, Inc.
[LUMCAT]FINELITE HPR-SL-LED-2X4-S-835-5155
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 23.2 WATTS
[ABSOLUTE]LUMENS]3586
[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	3586
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	23.2
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	1508	1634	1759
55	1426	1565	1680
65	1310	1411	1494
75	1123	1168	1205
85	802	588	650

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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	1240.456	1240.456	1240.456	1240.456	1240.456
2.5	1239.802	1236.099	1238.971	1241.928	1239.913
5.0	1235.094	1231.677	1235.181	1237.540	1235.918
7.5	1227.696	1224.387	1228.266	1231.383	1230.399
10.0	1217.154	1213.716	1218.521	1222.943	1222.067
12.5	1203.675	1201.032	1206.819	1212.871	1212.057
15.0	1186.842	1185.052	1192.739	1199.856	1201.226
17.5	1167.775	1166.526	1176.525	1186.041	1188.676
20.0	1145.570	1145.654	1157.698	1171.284	1175.423
22.5	1120.281	1122.242	1137.626	1154.869	1160.503
25.0	1092.974	1096.213	1115.872	1137.041	1144.397
27.5	1063.019	1068.016	1092.195	1117.311	1127.023
30.0	1031.266	1037.434	1066.352	1096.213	1107.663
32.5	995.997	1004.484	1038.502	1072.604	1086.552
35.0	959.420	969.606	1007.298	1046.268	1062.384
37.5	920.700	932.211	974.912	1017.310	1034.248
40.0	880.260	893.212	938.950	983.982	1002.275
42.5	837.359	852.378	900.741	947.453	965.593
45.0	793.471	809.372	859.446	906.993	925.088
47.5	750.454	764.689	815.369	861.931	879.224
50.0	704.049	718.667	769.051	813.385	829.194
52.5	656.198	671.207	720.205	760.411	775.242
55.0	608.628	622.805	667.662	704.519	716.856
57.5	560.701	572.629	613.761	646.099	657.090
60.0	512.367	521.897	557.607	585.641	595.086
62.5	461.650	470.518	501.089	524.724	532.348
65.0	411.861	419.155	443.612	462.651	469.657
67.5	363.183	368.359	387.946	402.683	407.841
70.0	314.195	316.869	332.389	344.023	347.618
72.5	264.903	266.082	277.622	285.790	288.352
75.0	216.247	217.275	224.844	230.542	232.073
77.5	170.014	170.111	174.648	177.725	178.436
80.0	127.197	126.255	128.897	129.075	129.145
82.5	87.821	86.284	86.472	84.339	83.150
85.0	52.030	44.395	38.143	45.927	42.153
87.5	8.809	8.718	8.458	8.340	8.351
90.0	1.427	1.344	1.261	1.330	1.450
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	454.23	N.A.	12.70
0-30	969.31	N.A.	27.00
0-40	1600.12	N.A.	44.60
0-60	2854.84	N.A.	79.60
0-80	3530.81	N.A.	98.50
0-90	3585.94	N.A.	100.00
10-90	3468.56	N.A.	96.70
20-40	1145.89	N.A.	32.00
20-50	1807.5	N.A.	50.40
40-70	1692.26	N.A.	47.20
60-80	675.97	N.A.	18.80
70-80	238.43	N.A.	6.60
80-90	55.13	N.A.	1.50
90-110	0.18	N.A.	0.00
90-120	0.18	N.A.	0.00
90-130	0.18	N.A.	0.00
90-150	0.18	N.A.	0.00
90-180	0.18	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3586.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.37
10-20	336.86
20-30	515.08
30-40	630.81
40-50	661.61
50-60	593.11
60-70	437.54
70-80	238.43
80-90	55.13
90-100	0.18
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

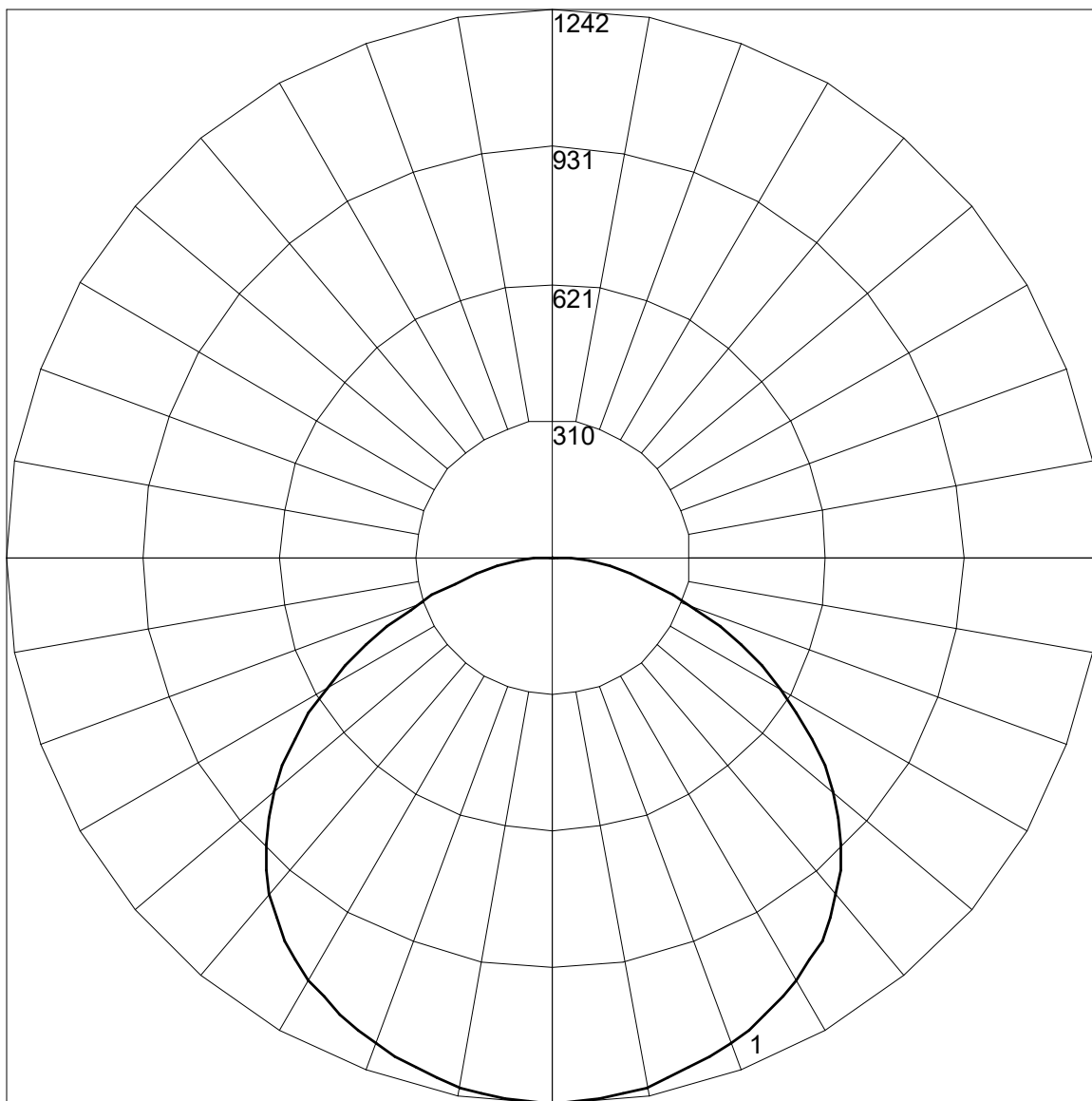
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1241.928 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)