

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-LED-ANR-2X4-DCO-H-837-XXIC-ITL85151.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85151.203 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/15

[ISSUEDATE]05/18/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-2X4-DCO-H-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 38.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 38.8 WATTS

[ABSOLUTE]LUMENS]4544

[OTHER]see www.finelite.com for source file ITL85151. 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	4543
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2372	2295	2269
55	2141	2039	2021
65	1877	1767	1748
75	1565	1457	1409
85	1185	1055	913

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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	1861.415	1861.415	1861.415	1861.415	1861.415
2.5	1860.080	1859.413	1858.746	1858.746	1858.746
5.0	1852.739	1850.737	1850.069	1848.067	1847.400
7.5	1840.725	1838.056	1834.719	1831.382	1830.714
10.0	1821.370	1817.366	1814.029	1809.357	1808.022
12.5	1797.344	1790.669	1788.000	1782.660	1779.991
15.0	1769.312	1761.971	1757.299	1749.290	1745.953
17.5	1735.942	1725.930	1719.256	1709.245	1707.243
20.0	1695.897	1686.553	1676.542	1665.196	1663.193
22.5	1652.515	1641.836	1629.823	1616.475	1613.138
25.0	1603.126	1590.445	1577.097	1565.084	1560.412
27.5	1553.070	1537.052	1522.369	1508.354	1503.682
30.0	1495.673	1478.320	1461.635	1448.954	1443.615
32.5	1434.271	1417.585	1397.563	1385.550	1383.547
35.0	1369.532	1352.179	1332.824	1318.808	1318.141
37.5	1302.123	1283.435	1264.080	1250.732	1249.397
40.0	1232.045	1212.690	1193.335	1181.989	1179.986
42.5	1156.627	1140.609	1121.254	1113.245	1107.906
45.0	1083.879	1067.194	1048.506	1039.830	1036.493
47.5	1009.796	992.443	975.091	967.082	963.745
50.0	936.381	919.028	904.345	895.001	892.331
52.5	866.302	843.610	828.927	822.920	820.251
55.0	793.554	770.862	755.512	751.507	748.838
57.5	721.474	699.449	684.766	684.766	678.759
60.0	650.060	629.371	615.355	614.687	609.348
62.5	580.649	560.627	548.614	547.946	542.607
65.0	512.573	493.886	482.540	481.872	477.200
67.5	445.832	427.812	419.803	417.133	413.129
70.0	381.760	367.077	357.733	355.731	351.727
72.5	319.691	306.343	299.001	296.331	292.994
75.0	261.626	250.280	243.606	240.269	235.597
77.5	206.231	196.219	191.548	188.210	184.206
80.0	155.507	147.498	142.826	140.157	136.152
82.5	108.788	103.449	101.447	95.440	92.103
85.0	66.741	63.404	59.400	52.726	51.391
87.5	28.699	27.364	24.027	22.692	24.027
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-2X4-DCO-H-837-XXIC-ITL85151.203.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	670.13	N.A.	14.70
0-30	1396.69	N.A.	30.70
0-40	2231.98	N.A.	49.10
0-60	3727.5	N.A.	82.00
0-80	4473.79	N.A.	98.50
0-90	4543.42	N.A.	100.00
10-90	4367.98	N.A.	96.10
20-40	1561.85	N.A.	34.40
20-50	2374.74	N.A.	52.30
40-70	1979.91	N.A.	43.60
60-80	746.29	N.A.	16.40
70-80	261.90	N.A.	5.80
80-90	69.63	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4543.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.44
10-20	494.69
20-30	726.56
30-40	835.28
40-50	812.89
50-60	682.64
60-70	484.39
70-80	261.90
80-90	69.63
90-100	0.00
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

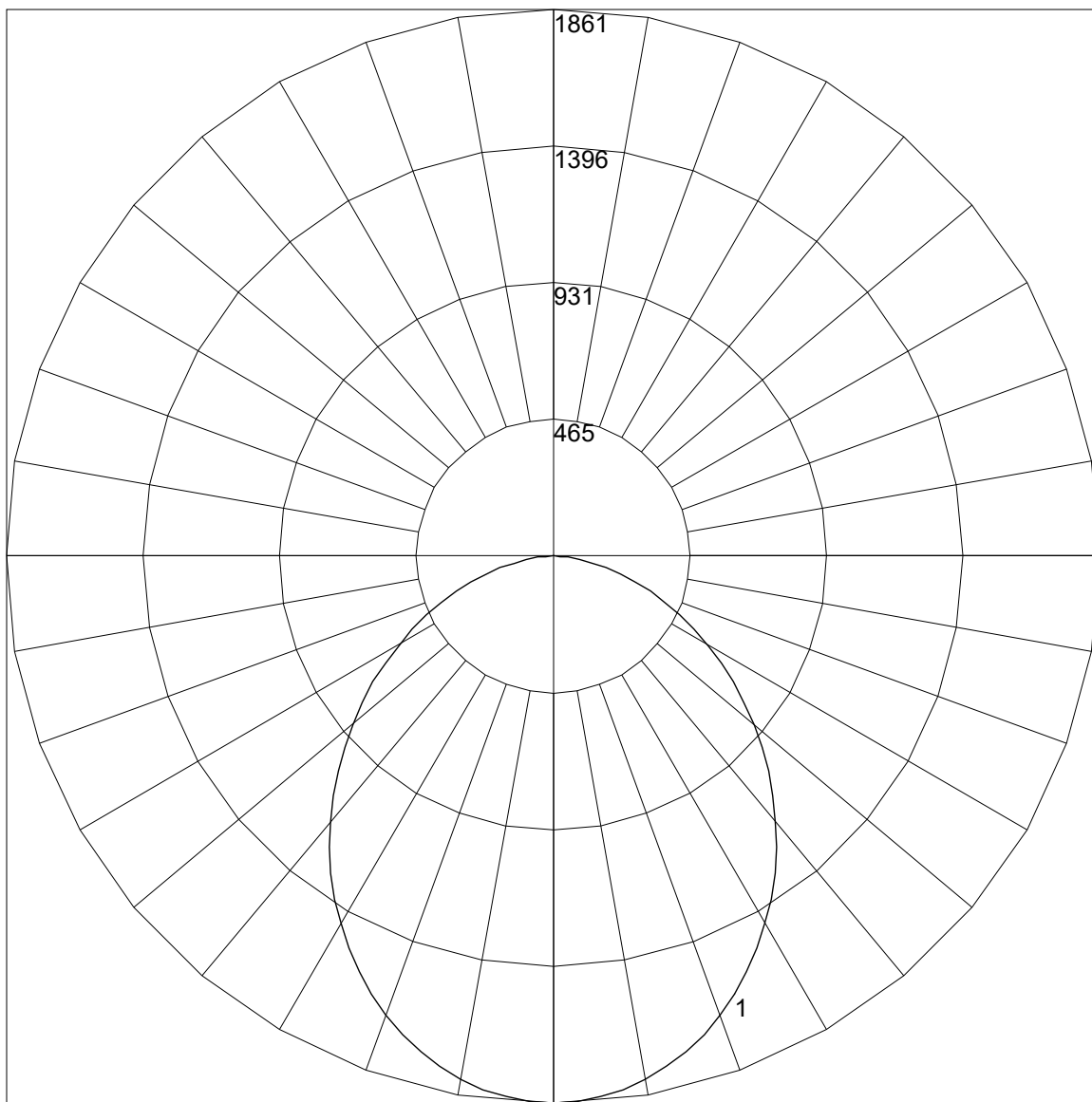
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1861.415 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)