

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-2X2-DCO-B-837-XXIC-ITL85148.202.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85148.202 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/15

[ISSUEDATE]05/17/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-2X2-DCO-B-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 34.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 35.6 WATTS

[ABSOLUTE]LUMENS]3622

[OTHER]see www.finelite.com for source file ITL85148. 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	3622
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	34.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.82 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	3884	3822	3852
55	3474	3404	3444
65	3025	2953	3002
75	2517	2451	2473
85	1874	1787	1569

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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	1505.031	1505.031	1505.031	1505.031	1505.031
2.5	1503.863	1503.863	1503.280	1502.696	1502.113
5.0	1496.861	1496.861	1495.110	1493.943	1493.359
7.5	1485.773	1484.606	1482.855	1479.937	1479.353
10.0	1471.183	1469.433	1464.764	1461.263	1458.928
12.5	1448.424	1446.090	1442.588	1439.087	1436.169
15.0	1422.747	1419.829	1415.161	1411.076	1408.158
17.5	1391.234	1388.900	1382.481	1378.979	1376.645
20.0	1357.387	1352.718	1346.883	1343.381	1341.047
22.5	1317.121	1312.452	1307.200	1303.698	1300.197
25.0	1274.520	1269.268	1263.432	1260.514	1258.180
27.5	1228.418	1222.582	1216.746	1214.412	1212.661
30.0	1180.565	1172.978	1167.726	1165.976	1164.225
32.5	1129.211	1120.457	1115.205	1115.205	1113.454
35.0	1074.938	1065.601	1061.516	1062.683	1060.933
37.5	1018.332	1009.578	1005.493	1006.077	1006.077
40.0	960.558	951.221	948.303	950.638	950.638
42.5	902.201	892.864	890.530	893.448	894.031
45.0	843.844	834.507	830.422	836.258	836.841
47.5	784.903	775.566	772.065	777.901	779.068
50.0	726.546	717.209	714.291	720.127	721.294
52.5	668.773	659.436	656.518	662.937	663.521
55.0	612.166	601.662	599.911	606.331	606.914
57.5	553.809	545.639	543.305	550.891	551.475
60.0	498.954	491.367	488.449	496.036	496.619
62.5	445.265	437.679	435.344	441.764	442.347
65.0	392.744	386.908	383.406	389.242	389.826
67.5	341.973	334.970	333.219	338.471	339.055
70.0	292.953	286.534	284.199	289.451	289.451
72.5	245.100	240.431	239.264	241.599	241.599
75.0	200.165	196.080	194.913	197.247	196.664
77.5	159.315	154.063	153.479	154.646	153.479
80.0	119.632	115.547	116.131	115.547	114.380
82.5	83.451	81.116	80.533	79.366	75.864
85.0	50.187	49.020	47.853	44.351	42.017
87.5	21.009	21.009	19.841	19.841	18.674
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-B-837-XXIC-ITL85148.202.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	540.34	N.A.	14.90
0-30	1122.33	N.A.	31.00
0-40	1787.34	N.A.	49.30
0-60	2972.58	N.A.	82.10
0-80	3566.55	N.A.	98.50
0-90	3622.35	N.A.	100.00
10-90	3480.58	N.A.	96.10
20-40	1247.00	N.A.	34.40
20-50	1891.43	N.A.	52.20
40-70	1569.77	N.A.	43.30
60-80	593.97	N.A.	16.40
70-80	209.44	N.A.	5.80
80-90	55.80	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	3622.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.77
10-20	398.57
20-30	581.99
30-40	665.01
40-50	644.43
50-60	540.82
60-70	384.53
70-80	209.44
80-90	55.80
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

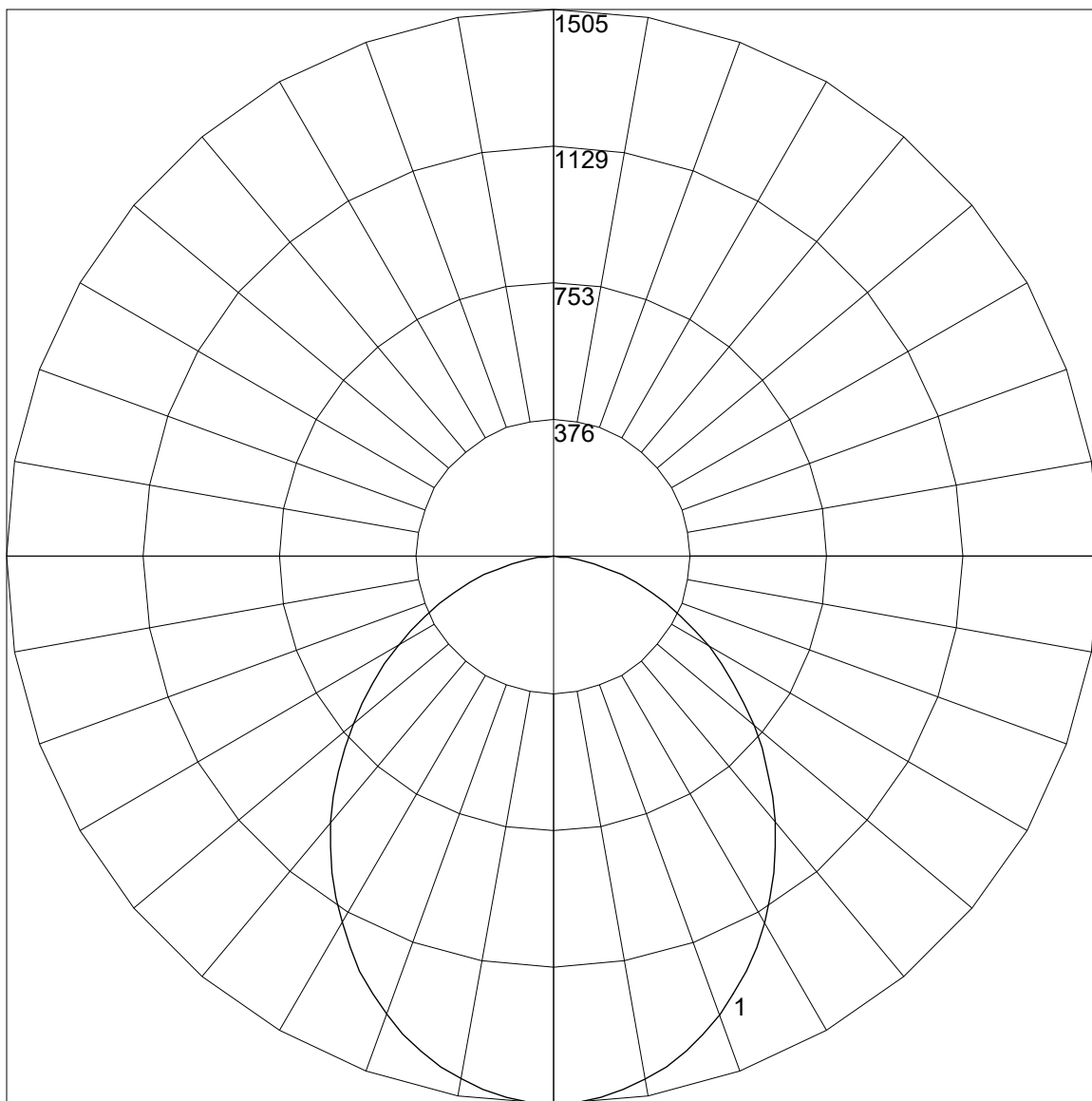
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	72	67	63	61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

POLAR GRAPH



Maximum Candela = 1505.031 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)