

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-H-8-35-ITL85148.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85148.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-2X2-DCO-H-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 43.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.5 WATTS

[ABSOLUTE]LUMENS]4766

[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	4766
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	43
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	5111	5029	5068
55	4571	4479	4531
65	3980	3885	3950
75	3312	3225	3254
85	2466	2351	2065

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1980.303	1980.303	1980.303	1980.303	1980.303
2.5	1978.768	1978.768	1978.000	1977.232	1976.464
5.0	1969.553	1969.553	1967.250	1965.714	1964.946
7.5	1954.964	1953.428	1951.125	1947.286	1946.518
10.0	1935.768	1933.464	1927.321	1922.714	1919.643
12.5	1905.821	1902.750	1898.143	1893.536	1889.696
15.0	1872.036	1868.196	1862.053	1856.678	1852.839
17.5	1830.571	1827.500	1819.053	1814.446	1811.375
20.0	1786.036	1779.893	1772.214	1767.607	1764.536
22.5	1733.053	1726.911	1720.000	1715.393	1710.786
25.0	1677.000	1670.089	1662.411	1658.571	1655.500
27.5	1616.339	1608.661	1600.982	1597.911	1595.607
30.0	1553.375	1543.393	1536.482	1534.178	1531.875
32.5	1485.803	1474.286	1467.375	1467.375	1465.071
35.0	1414.393	1402.107	1396.732	1398.268	1395.964
37.5	1339.911	1328.393	1323.018	1323.786	1323.786
40.0	1263.893	1251.607	1247.768	1250.839	1250.839
42.5	1187.107	1174.821	1171.750	1175.589	1176.357
45.0	1110.321	1098.036	1092.661	1100.339	1101.107
47.5	1032.768	1020.482	1015.875	1023.553	1025.089
50.0	955.982	943.696	939.857	947.536	949.071
52.5	879.964	867.678	863.839	872.286	873.053
55.0	805.482	791.661	789.357	797.804	798.571
57.5	728.696	717.946	714.875	724.857	725.625
60.0	656.518	646.536	642.696	652.679	653.446
62.5	585.875	575.893	572.821	581.268	582.036
65.0	516.768	509.089	504.482	512.161	512.929
67.5	449.964	440.750	438.446	445.357	446.125
70.0	385.464	377.018	373.946	380.857	380.857
72.5	322.500	316.357	314.821	317.893	317.893
75.0	263.375	258.000	256.464	259.536	258.768
77.5	209.625	202.714	201.946	203.482	201.946
80.0	157.411	152.036	152.804	152.036	150.500
82.5	109.804	106.732	105.964	104.429	99.821
85.0	66.036	64.500	62.964	58.357	55.286
87.5	27.643	27.643	26.107	26.107	24.571
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-H-8-35-ITL85148.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	710.97	N.A.	14.90
0-30	1476.75	N.A.	31.00
0-40	2351.76	N.A.	49.30
0-60	3911.3	N.A.	82.10
0-80	4692.83	N.A.	98.50
0-90	4766.26	N.A.	100.00
10-90	4579.72	N.A.	96.10
20-40	1640.79	N.A.	34.40
20-50	2488.72	N.A.	52.20
40-70	2065.49	N.A.	43.30
60-80	781.53	N.A.	16.40
70-80	275.58	N.A.	5.80
80-90	73.43	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	4766.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.54
10-20	524.43
20-30	765.78
30-40	875.01
40-50	847.93
50-60	711.61
60-70	505.96
70-80	275.58
80-90	73.43
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

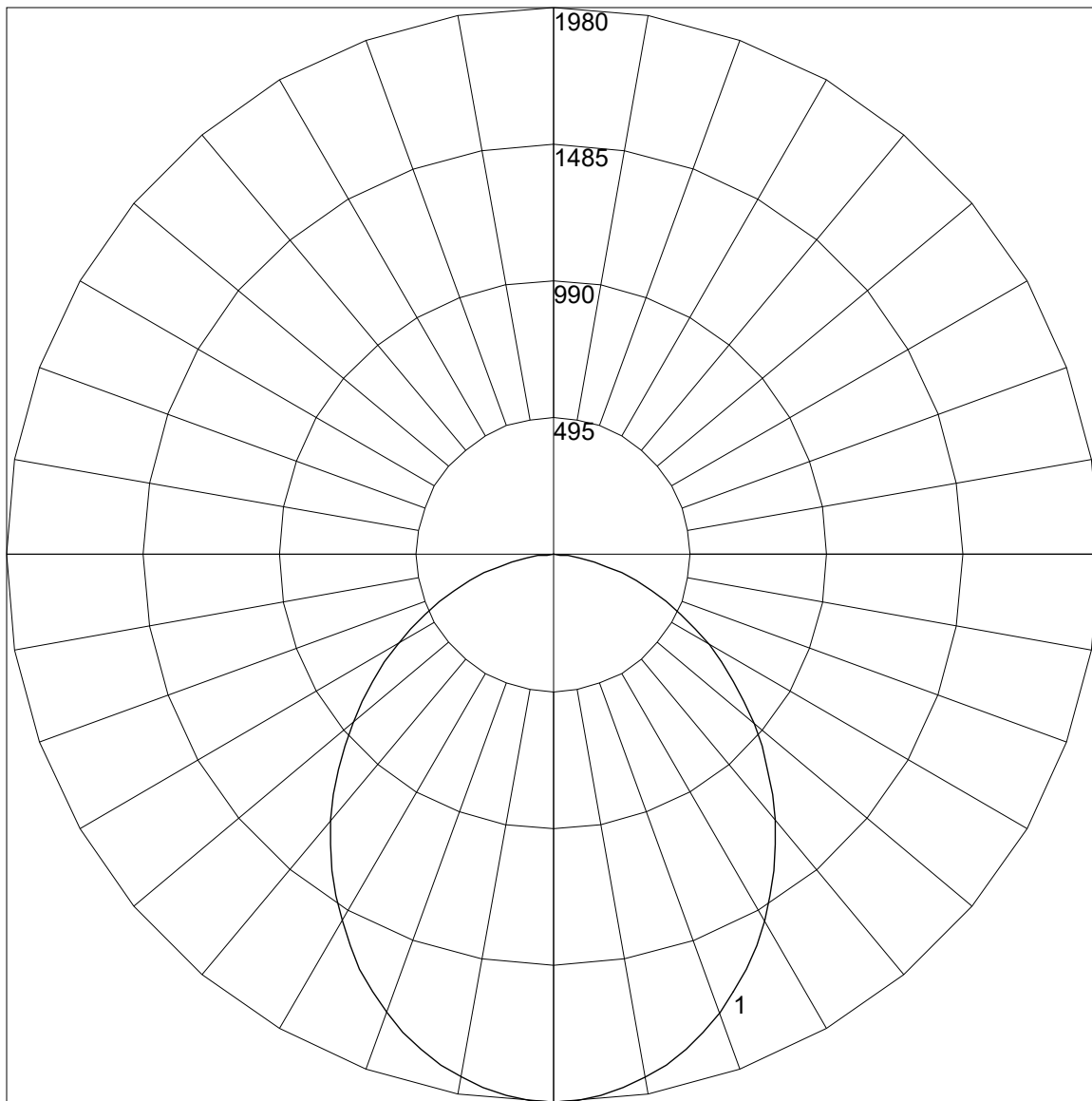
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	57	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 = 1980.303 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)