

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-V-837-XXIC-ITL85148.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85148.200 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-V-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 54.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.6 WATTS

[ABSOLUTE]LUMENS]5338

[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	5338
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	54.6
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	5724	5633	5677
55	5119	5017	5075
65	4457	4351	4424
75	3709	3612	3645
85	2762	2634	2312

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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	2217.94	2217.94	2217.94	2217.94	2217.94
2.5	2216.22	2216.22	2215.36	2214.50	2213.64
5.0	2205.90	2205.90	2203.32	2201.60	2200.74
7.5	2189.56	2187.84	2185.26	2180.96	2180.10
10.0	2168.06	2165.48	2158.60	2153.44	2150.00
12.5	2134.52	2131.08	2125.92	2120.76	2116.46
15.0	2096.68	2092.38	2085.50	2079.48	2075.18
17.5	2050.24	2046.80	2037.34	2032.18	2028.74
20.0	2000.36	1993.48	1984.88	1979.72	1976.28
22.5	1941.02	1934.14	1926.40	1921.24	1916.08
25.0	1878.24	1870.50	1861.90	1857.60	1854.16
27.5	1810.30	1801.70	1793.10	1789.66	1787.08
30.0	1739.78	1728.60	1720.86	1718.28	1715.70
32.5	1664.10	1651.20	1643.46	1643.46	1640.88
35.0	1584.12	1570.36	1564.34	1566.06	1563.48
37.5	1500.70	1487.80	1481.78	1482.64	1482.64
40.0	1415.56	1401.80	1397.50	1400.94	1400.94
42.5	1329.56	1315.80	1312.36	1316.66	1317.52
45.0	1243.56	1229.80	1223.78	1232.38	1233.24
47.5	1156.70	1142.94	1137.78	1146.38	1148.10
50.0	1070.70	1056.94	1052.64	1061.24	1062.96
52.5	985.56	971.80	967.50	976.96	977.82
55.0	902.14	886.66	884.08	893.54	894.40
57.5	816.14	804.10	800.66	811.84	812.70
60.0	735.30	724.12	719.82	731.00	731.86
62.5	656.18	645.00	641.56	651.02	651.88
65.0	578.78	570.18	565.02	573.62	574.48
67.5	503.96	493.64	491.06	498.80	499.66
70.0	431.72	422.26	418.82	426.56	426.56
72.5	361.20	354.32	352.60	356.04	356.04
75.0	294.98	288.96	287.24	290.68	289.82
77.5	234.78	227.04	226.18	227.90	226.18
80.0	176.30	170.28	171.14	170.28	168.56
82.5	122.98	119.54	118.68	116.96	111.80
85.0	73.96	72.24	70.52	65.36	61.92
87.5	30.96	30.96	29.24	29.24	27.52
90.0	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-2X2-DCO-V-837-XXIC-ITL85148.200.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	796.28	N.A.	14.90
0-30	1653.96	N.A.	31.00
0-40	2633.97	N.A.	49.30
0-60	4380.65	N.A.	82.10
0-80	5255.97	N.A.	98.50
0-90	5338.21	N.A.	100.00
10-90	5129.28	N.A.	96.10
20-40	1837.69	N.A.	34.40
20-50	2787.37	N.A.	52.20
40-70	2313.35	N.A.	43.30
60-80	875.32	N.A.	16.40
70-80	308.65	N.A.	5.80
80-90	82.24	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	5338.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	208.92
10-20	587.36
20-30	857.67
30-40	980.01
40-50	949.68
50-60	797.00
60-70	566.67
70-80	308.65
80-90	82.24
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

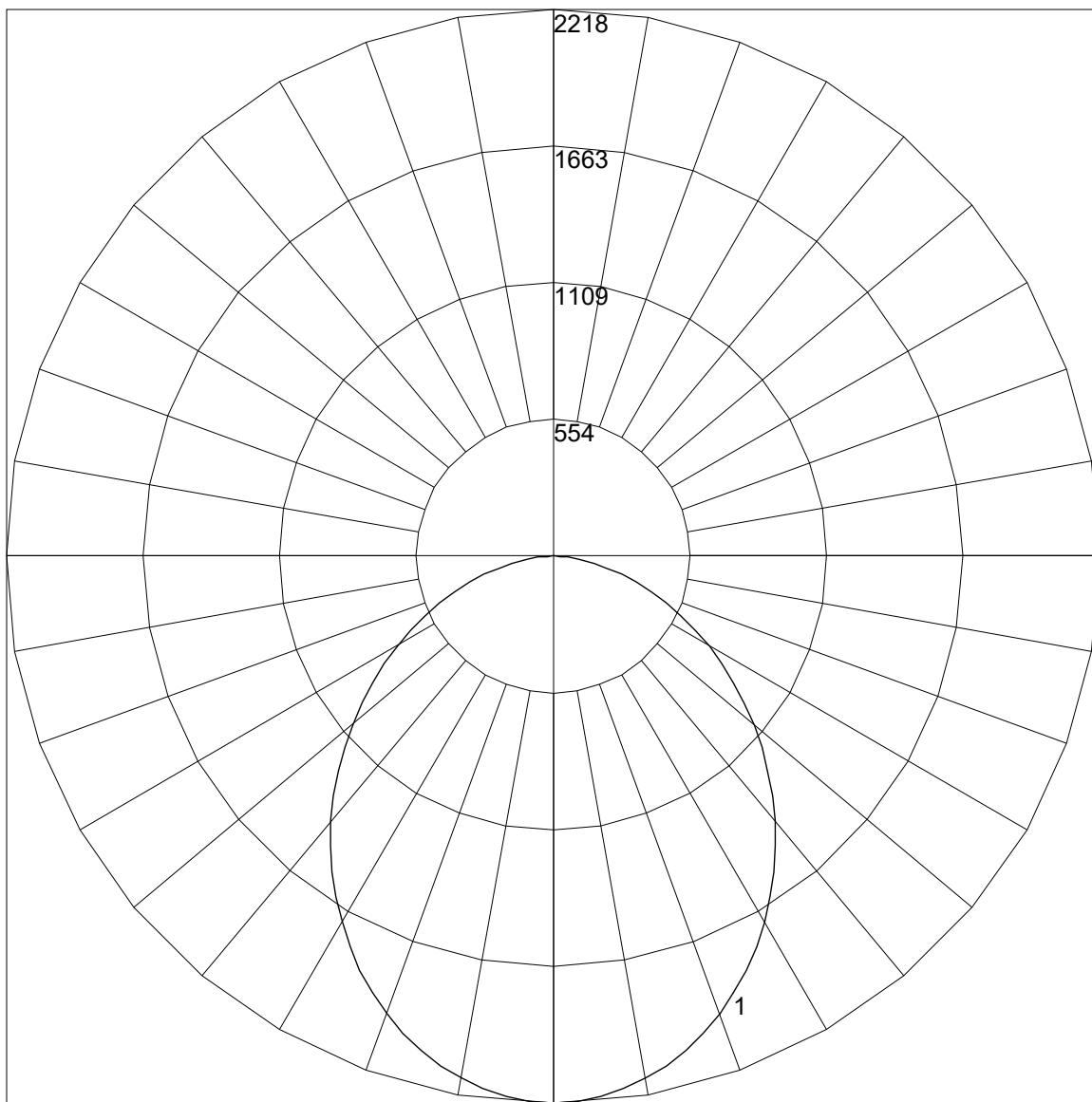
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2217.94 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)