

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-F-1X4-DD-B-8-TW-ITL85153.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85153.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/26/15
[ISSUE DATE]04/20/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-F-1X4-DD-B-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.6 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.5 WATTS
[OTHER]see www.finelite.com for source file ITL85153. 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
[_ABSOLUTELUMENS]3491

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3491
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	40.6
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)	0.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4020	3961	3907
55	3623	3544	3490
65	3199	3108	3034
75	2712	2605	2524
85	2153	1794	1515

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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	1433	1433	1433	1433	1433
2.5	1431	1431	1432	1432	1432
5.0	1425	1425	1425	1424	1424
7.5	1413	1413	1413	1411	1412
10.0	1399	1396	1396	1396	1393
12.5	1380	1374	1376	1376	1371
15.0	1358	1348	1352	1351	1344
17.5	1329	1319	1323	1321	1315
20.0	1297	1286	1289	1286	1280
22.5	1260	1251	1252	1249	1242
25.0	1222	1210	1211	1207	1200
27.5	1179	1167	1167	1163	1157
30.0	1133	1122	1121	1115	1110
32.5	1084	1073	1072	1065	1060
35.0	1034	1023	1021	1014	1009
37.5	981	972	968	960	956
40.0	928	919	916	907	902
42.5	873	866	861	851	850
45.0	818	811	806	797	795
47.5	763	758	750	743	740
50.0	706	703	695	686	685
52.5	652	647	640	630	630
55.0	598	593	585	577	576
57.5	545	539	532	524	523
60.0	492	487	479	472	471
62.5	439	437	428	420	420
65.0	389	385	378	370	369
67.5	339	336	330	324	321
70.0	291	289	283	277	275
72.5	246	243	237	232	231
75.0	202	199	194	189	188
77.5	162	157	153	149	147
80.0	123	119	114	110	108
82.5	87	83	78	74	72
85.0	54	51	45	41	38
87.5	24	20	15	14	13
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	515.38	N.A.	14.80
0-30	1072.06	N.A.	30.70
0-40	1709.45	N.A.	49.00
0-60	2854.63	N.A.	81.80
0-80	3436.82	N.A.	98.50
0-90	3490.82	N.A.	100.00
10-90	3355.76	N.A.	96.10
20-40	1194.06	N.A.	34.20
20-50	1815.21	N.A.	52.00
40-70	1520.65	N.A.	43.60
60-80	582.18	N.A.	16.70
70-80	206.71	N.A.	5.90
80-90	54.00	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	3490.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.06
10-20	380.32
20-30	556.68
30-40	637.39
40-50	621.15
50-60	524.04
60-70	375.47
70-80	206.71
80-90	54.00
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

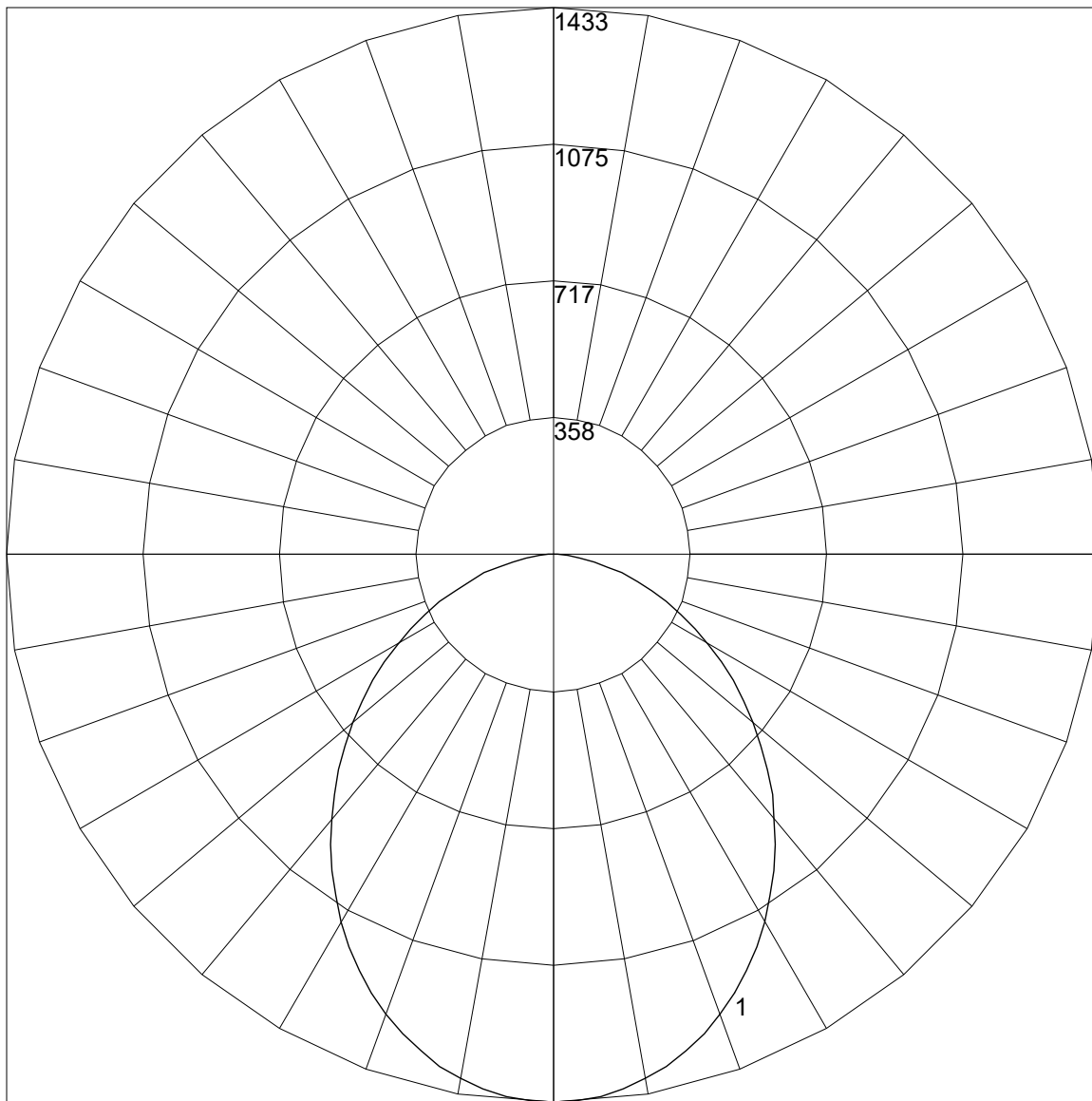
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	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	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1433 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)