

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 : HP-2-D-RG-4FT-S-835-RG-LHC-ITL91937.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91937.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUE DATE]06/11/19
[ISSUE DATE]07/24/19
[MANUFACT]FINELITE, INC.
[LUMCAT]HP-2-D-RG-4ft-S-835-RG-LHC
[INPUT_ELECTRICAL]120.0 VOLTS, 14.3 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 15.8 WATTS
[OTHER]see www.finelite.com for source file ITL91937. 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
[ABSOLUTE LUMENS]801

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	801
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	14.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3395	2565	2357
55	2947	2057	1944
65	2583	1722	1653
75	2199	1429	1383
85	1549	1010	943

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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	790.358	790.358	790.358	790.358	790.358
2.5	780.944	780.944	779.307	777.670	777.261
5.0	756.796	753.521	748.200	742.879	740.014
7.5	724.052	717.912	707.680	698.675	693.354
10.0	687.215	676.573	661.838	649.968	641.373
12.5	648.740	631.959	613.950	597.578	586.936
15.0	605.355	584.480	564.425	543.141	527.997
17.5	561.559	538.229	513.262	486.248	471.923
20.0	514.490	491.160	462.509	433.858	417.895
22.5	468.239	445.318	410.937	382.695	366.733
25.0	421.170	398.249	363.458	334.807	320.891
27.5	375.328	354.863	320.891	291.012	279.552
30.0	329.077	313.114	280.370	252.129	241.487
32.5	290.194	273.822	243.124	218.566	207.515
35.0	255.812	235.757	211.199	189.915	180.501
37.5	226.343	203.013	183.776	164.539	157.990
40.0	202.603	177.227	160.036	146.939	141.208
42.5	181.729	157.990	141.208	132.204	127.702
45.0	167.404	141.618	126.474	119.516	116.241
47.5	154.306	126.064	113.376	107.646	105.599
50.0	141.208	112.557	101.916	97.413	95.367
52.5	129.339	100.278	91.683	87.999	86.362
55.0	117.878	89.227	82.269	78.995	77.767
57.5	106.827	79.404	73.674	70.809	69.990
60.0	96.595	70.809	65.488	63.441	62.214
62.5	86.362	62.214	58.121	56.074	55.255
65.0	76.130	54.437	50.753	49.116	48.707
67.5	66.716	46.660	43.795	42.567	42.158
70.0	57.302	40.111	37.656	36.428	36.018
72.5	48.707	33.563	31.516	30.697	30.288
75.0	39.702	27.014	25.786	24.967	24.967
77.5	31.516	21.284	20.056	19.646	19.237
80.0	23.739	15.963	15.144	14.735	14.735
82.5	16.372	10.642	10.232	10.232	9.823
85.0	9.414	6.139	6.139	5.730	5.730
87.5	3.274	2.046	2.046	2.046	2.046
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	225.75	N.A.	28.20
0-30	394.29	N.A.	49.20
0-40	529.32	N.A.	66.10
0-60	710.45	N.A.	88.70
0-80	793.64	N.A.	99.10
0-90	801.19	N.A.	100.00
10-90	732.48	N.A.	91.40
20-40	303.56	N.A.	37.90
20-50	406.35	N.A.	50.70
40-70	235.01	N.A.	29.30
60-80	83.18	N.A.	10.40
70-80	29.31	N.A.	3.70
80-90	7.56	N.A.	0.90
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	801.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.72
10-20	157.04
20-30	168.53
30-40	135.03
40-50	102.79
50-60	78.35
60-70	53.87
70-80	29.31
80-90	7.56
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

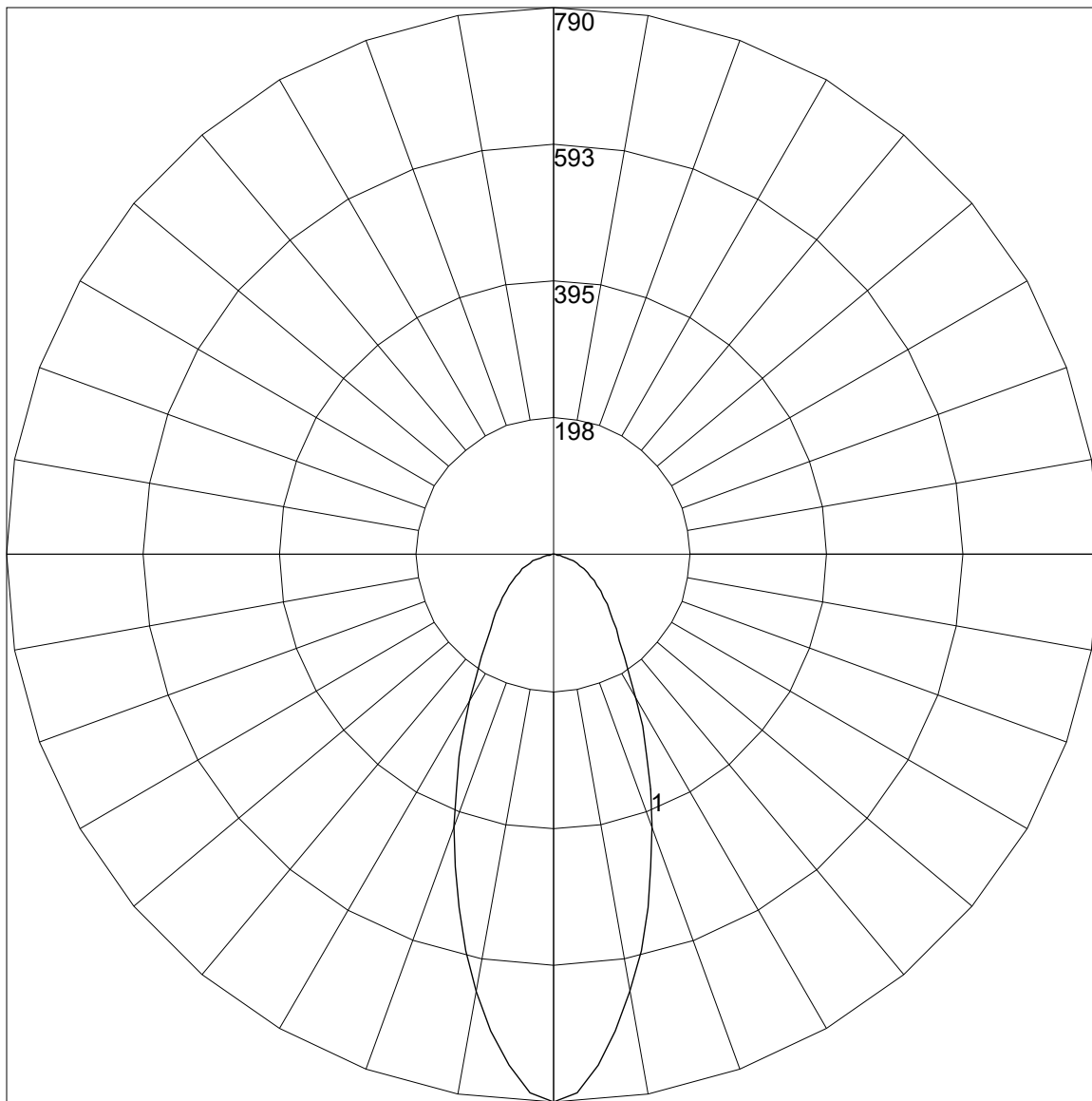
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

POLAR GRAPH



Maximum Candela = 790.358 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)