

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-B-835-RG-LHC-ITL91937.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91937.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUEDATE]06/11/19
[ISSUEDATE]07/24/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-D-RG-4ft-B-835-RG-LHC
[INPUT_ELECTRICAL]120.0 VOLTS, 18.1 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 19.4 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]1007

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1007
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	18.1
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	4268	3224	2963
55	3705	2586	2444
65	3247	2165	2077
75	2765	1796	1739
85	1947	1270	1185

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	993.621	993.621	993.621	993.621	993.621
2.5	981.786	981.786	979.728	977.670	977.155
5.0	951.427	947.311	940.621	933.932	930.330
7.5	910.262	902.544	889.680	878.359	871.670
10.0	863.951	850.573	832.049	817.126	806.320
12.5	815.582	794.485	771.845	751.262	737.883
15.0	761.039	734.796	709.582	682.825	663.786
17.5	705.981	676.650	645.262	611.301	593.291
20.0	646.806	617.476	581.456	545.437	525.369
22.5	588.660	559.845	516.621	481.116	461.049
25.0	529.485	500.670	456.932	420.913	403.417
27.5	471.854	446.126	403.417	365.854	351.447
30.0	413.709	393.641	352.476	316.971	303.592
32.5	364.825	344.243	305.650	274.777	260.883
35.0	321.602	296.388	265.515	238.757	226.922
37.5	284.553	255.223	231.039	206.854	198.621
40.0	254.709	222.806	201.194	184.728	177.524
42.5	228.466	198.621	177.524	166.204	160.544
45.0	210.456	178.039	159.000	150.252	146.136
47.5	193.990	158.485	142.534	135.330	132.757
50.0	177.524	141.505	128.126	122.466	119.893
52.5	162.602	126.068	115.262	110.631	108.573
55.0	148.194	112.175	103.427	99.311	97.767
57.5	134.301	99.825	92.621	89.019	87.990
60.0	121.437	89.019	82.330	79.757	78.214
62.5	108.573	78.214	73.068	70.495	69.466
65.0	95.709	68.437	63.806	61.748	61.233
67.5	83.874	58.660	55.058	53.515	53.000
70.0	72.039	50.427	47.340	45.796	45.282
72.5	61.233	42.194	39.621	38.592	38.078
75.0	49.913	33.961	32.417	31.388	31.388
77.5	39.621	26.757	25.214	24.699	24.184
80.0	29.845	20.068	19.039	18.524	18.524
82.5	20.583	13.379	12.864	12.864	12.350
85.0	11.835	7.718	7.718	7.204	7.204
87.5	4.117	2.573	2.573	2.573	2.573
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-B-835-RG-LHC-ITL91937.002.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	283.81	N.A.	28.20
0-30	495.69	N.A.	49.20
0-40	665.45	N.A.	66.10
0-60	893.17	N.A.	88.70
0-80	997.74	N.A.	99.10
0-90	1007.24	N.A.	100.00
10-90	920.85	N.A.	91.40
20-40	381.63	N.A.	37.90
20-50	510.85	N.A.	50.70
40-70	295.45	N.A.	29.30
60-80	104.58	N.A.	10.40
70-80	36.85	N.A.	3.70
80-90	9.50	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	1007.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.39
10-20	197.42
20-30	211.88
30-40	169.76
40-50	129.22
50-60	98.50
60-70	67.73
70-80	36.85
80-90	9.50
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

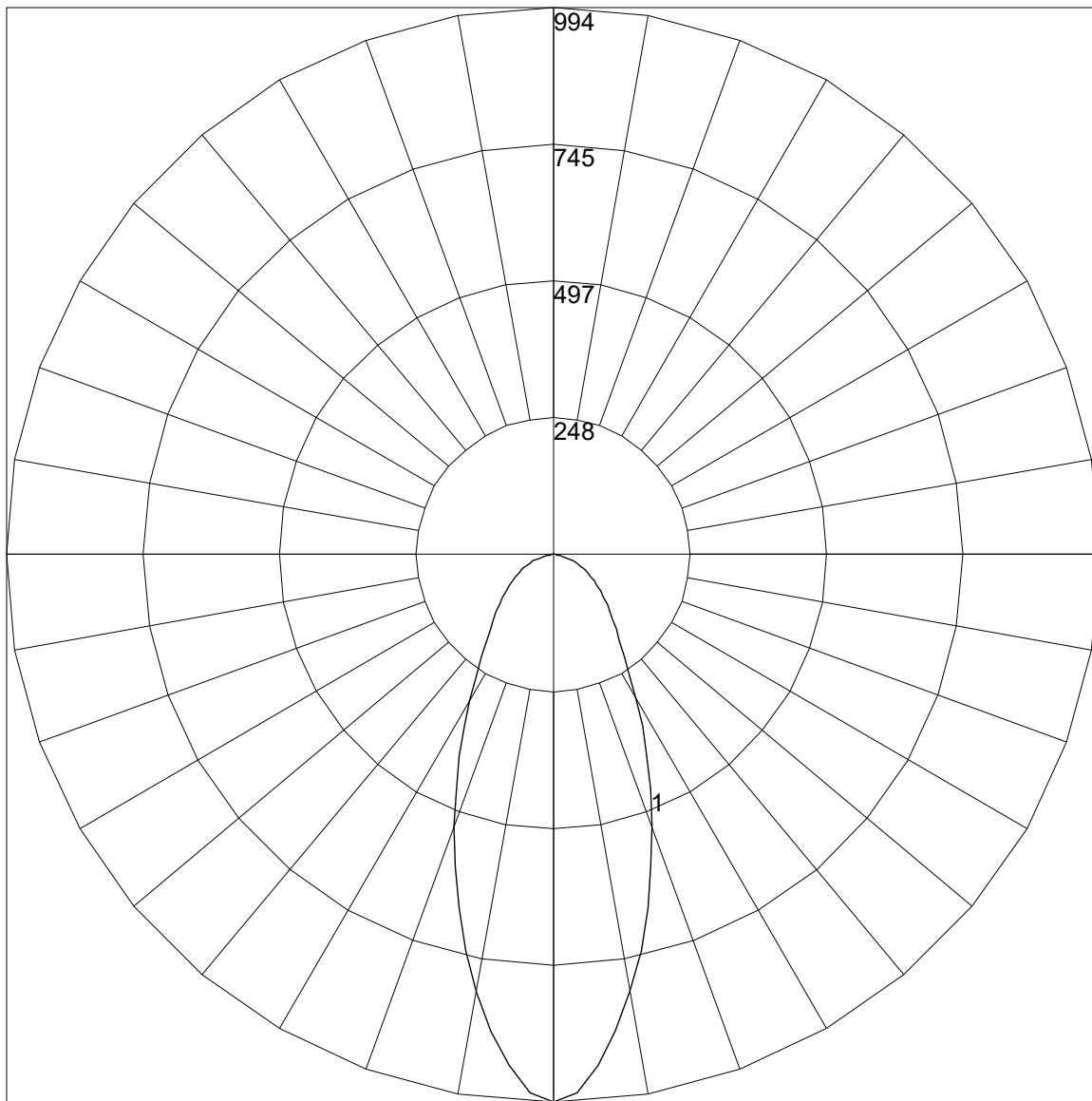
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-B-835-RG-LHC-ITL91937.002.IES

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 = 993.621 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)