

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-4-ID-4FT-V-B-835-WSO-ITL89033.005-GONIOPHOTOMETRY.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033.005-GONIOPHOTOMETRY Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUEDATE]03/08/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-V-B-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.8 WATTS

[OTHER]see www.finelite.com for source file ITL89033. 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]6194

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6194
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	54.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5157	5108	5048
55	4871	4796	4744
65	4522	4441	4390
75	4056	4006	3973
85	3441	3294	3392

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-WSO-ITL89033.005-GONIOPHOTOMETRY.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	709.208	709.208	709.208	709.208	709.208
2.5	708.179	708.179	708.179	708.179	708.179
5.0	705.091	705.091	704.576	705.091	705.091
7.5	700.459	699.944	699.944	700.459	700.459
10.0	694.283	692.739	692.739	693.768	692.739
12.5	686.048	682.960	685.019	685.019	682.960
15.0	676.270	671.123	673.697	674.211	671.638
17.5	664.433	662.374	661.345	661.345	658.256
20.0	651.566	643.331	646.419	645.905	643.331
22.5	633.553	627.891	633.553	628.921	626.862
25.0	616.054	609.363	612.451	610.907	609.363
27.5	597.526	591.350	595.467	591.865	589.806
30.0	577.454	571.278	573.851	571.793	569.220
32.5	556.353	550.177	552.236	550.177	547.604
35.0	534.222	528.561	530.105	527.532	524.958
37.5	510.548	504.886	506.945	504.886	501.798
40.0	487.388	481.726	482.241	480.182	477.609
42.5	462.684	458.052	458.567	455.478	453.420
45.0	437.980	432.833	433.863	430.775	428.716
47.5	412.761	407.100	408.129	404.012	403.497
50.0	387.028	382.396	382.396	379.308	377.764
52.5	361.810	356.663	356.663	353.575	352.546
55.0	335.562	330.930	330.415	327.327	326.812
57.5	308.799	304.167	304.167	301.594	300.564
60.0	282.551	277.919	277.919	275.346	274.831
62.5	256.303	251.671	251.671	249.613	248.583
65.0	229.541	224.909	225.423	223.879	222.850
67.5	202.778	198.661	199.175	198.661	197.117
70.0	176.530	173.442	173.442	172.927	171.898
72.5	150.797	148.224	148.224	148.224	147.194
75.0	126.093	123.520	124.549	124.034	123.520
77.5	101.904	99.845	100.874	100.360	100.360
80.0	78.744	77.714	78.229	77.714	77.714
82.5	57.128	56.099	56.099	56.099	57.128
85.0	36.027	34.997	34.483	34.483	35.512
87.5	15.440	14.925	14.925	14.411	14.925
90.0	0.000	0.000	0.000	0.000	0.000
92.5	16.000	28.000	30.000	30.000	30.000
95.0	45.000	80.000	82.000	64.000	64.000
97.5	79.000	136.000	210.000	131.000	114.000
100.0	119.000	186.000	333.000	246.000	193.000
102.5	167.000	227.000	492.000	381.000	310.000
105.0	211.000	271.000	614.000	589.000	472.000
107.5	256.000	315.000	670.000	862.000	725.000
110.0	299.000	356.000	697.000	1089.000	1038.000
112.5	343.000	396.000	729.000	1183.000	1245.000
115.0	385.000	434.000	783.000	1212.000	1323.000
117.5	419.000	469.000	826.000	1226.000	1352.000
120.0	450.000	503.000	854.000	1281.000	1373.000
122.5	477.000	536.000	872.000	1349.000	1438.000
125.0	503.000	565.000	885.000	1386.000	1514.000
127.5	527.000	591.000	895.000	1387.000	1554.000
130.0	547.000	614.000	903.000	1363.000	1547.000
132.5	568.000	636.000	910.000	1330.000	1510.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-WSO-ITL89033.005-GONIOPHOTOMETRY.IES****CANDELA TABULATION - (Cont.)**

135.0	588.000	656.000	915.000	1294.000	1462.000
137.5	607.000	674.000	917.000	1255.000	1407.000
140.0	627.000	691.000	918.000	1216.000	1349.000
142.5	647.000	707.000	917.000	1175.000	1291.000
145.0	668.000	723.000	912.000	1137.000	1234.000
147.5	685.000	736.000	905.000	1099.000	1179.000
150.0	703.000	749.000	898.000	1062.000	1129.000
152.5	721.000	760.000	890.000	1026.000	1083.000
155.0	737.000	771.000	882.000	992.000	1037.000
157.5	752.000	780.000	872.000	961.000	996.000
160.0	766.000	789.000	864.000	933.000	959.000
162.5	778.000	796.000	854.000	907.000	927.000
165.0	790.000	802.000	845.000	884.000	899.000
167.5	799.000	807.000	837.000	864.000	875.000
170.0	806.000	812.000	831.000	848.000	854.000
172.5	811.000	815.000	826.000	835.000	839.000
175.0	816.000	817.000	821.000	825.000	828.000
177.5	818.000	818.000	819.000	820.000	820.000
180.0	819.000	819.000	819.000	819.000	819.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-WSO-ITL89033.005-GONIOPHOTOMETRY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	256.79	N.A.	4.10
0-30	538.58	N.A.	8.70
0-40	869.30	N.A.	14.00
0-60	1497.93	N.A.	24.20
0-80	1852.46	N.A.	29.90
0-90	1891.94	N.A.	30.50
10-90	1825.01	N.A.	29.50
20-40	612.51	N.A.	9.90
20-50	946.15	N.A.	15.30
40-70	851.57	N.A.	13.70
60-80	354.53	N.A.	5.70
70-80	131.59	N.A.	2.10
80-90	39.48	N.A.	0.60
90-110	581.48	N.A.	9.40
90-120	1385.14	N.A.	22.40
90-130	2237.22	N.A.	36.10
90-150	3574.02	N.A.	57.70
90-180	4302.09	N.A.	69.50
110-180	3720.6	N.A.	60.10
0-180	6194.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.93
10-20	189.87
20-30	281.79
30-40	330.72
40-50	333.64
50-60	294.99
60-70	222.94
70-80	131.59
80-90	39.48
90-100	96.89
100-110	484.59
110-120	803.65
120-130	852.09
130-140	751.91
140-150	584.88
150-160	409.48
160-170	239.90
170-180	78.69

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-WSO-ITL89033.005-GONIOPHOTOMETRY.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

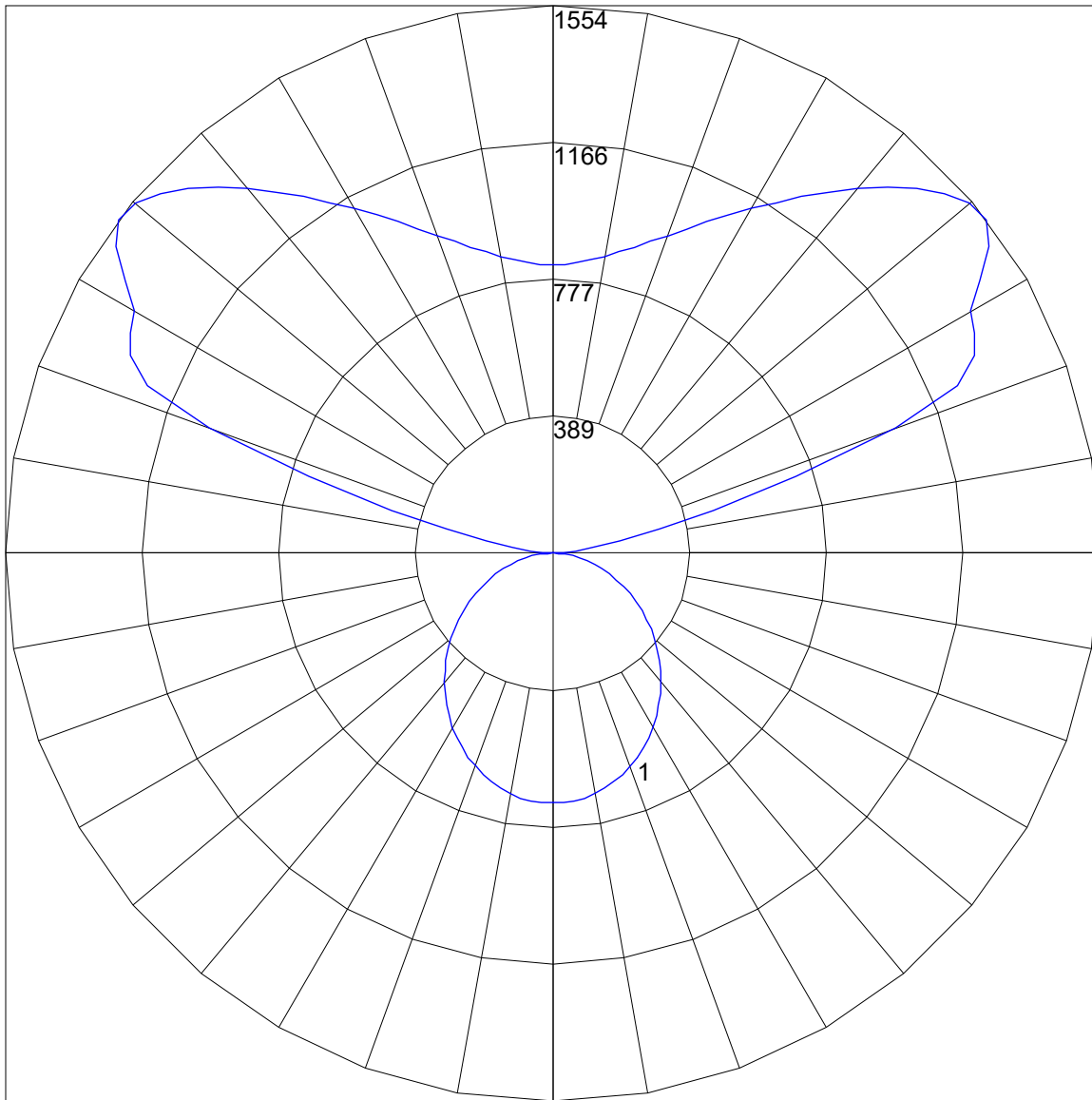
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	93	89	85	82	84	80	77	74	63	61	59	48	47	45	34	33	32	26
2	85	78	72	67	76	70	65	61	55	52	49	42	40	38	30	28	27	21
3	77	68	61	55	69	61	55	51	49	44	41	37	34	32	26	24	23	18
4	71	60	53	47	63	54	48	43	43	39	35	33	30	27	23	21	20	15
5	65	54	46	40	58	48	42	36	39	34	30	29	26	23	21	19	17	13
6	60	48	40	34	53	43	36	32	35	30	26	27	23	20	19	17	15	12
7	55	43	35	30	49	39	32	28	31	26	23	24	21	18	17	15	13	10
8	51	39	31	26	46	35	29	24	28	24	20	22	18	16	16	14	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	12	11	8
10	44	32	25	21	40	29	23	19	24	19	16	19	15	13	14	11	10	8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-WSO-ITL89033.005-GONIOPHOTOMETRY.IES

POLAR GRAPH



Maximum Candela = 1554 Located At Horizontal Angle = 90, Vertical Angle = 127.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)