

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-S-835-WSO-DSO-ITL89033-ITL92993.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUEDATE]08/04/2020

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 50.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 52.6 WATTS

[OTHER]see www.finelite.com for source files ITL89033 and ITL92293. 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]5842

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5842
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	50.9
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	3407	4481	4886
55	3136	4259	4562
65	2870	3886	4088
75	2580	3383	3462
85	2267	2658	2580

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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	511.560	511.560	511.560	511.560	511.560
2.5	510.332	510.741	511.560	511.969	512.379
5.0	507.877	508.695	511.151	513.606	514.425
7.5	503.375	505.830	510.741	515.653	517.289
10.0	498.055	500.510	509.514	518.927	521.791
12.5	492.735	494.781	508.695	523.428	527.111
15.0	485.777	492.735	508.286	526.702	531.204
17.5	470.635	478.002	507.877	527.930	534.478
20.0	457.949	466.952	507.058	527.930	535.296
22.5	445.262	455.902	497.236	526.293	534.887
25.0	430.938	446.490	489.870	522.610	532.022
27.5	413.750	432.984	482.094	517.289	526.293
30.0	397.380	417.842	472.681	509.514	517.699
32.5	380.191	403.928	463.678	500.510	507.058
35.0	363.003	388.786	448.536	488.233	493.144
37.5	344.587	372.006	433.803	470.226	476.774
40.0	327.398	354.818	417.433	451.401	458.767
42.5	307.755	338.039	399.835	432.575	437.895
45.0	289.338	319.213	380.601	410.067	414.978
47.5	271.331	300.388	360.957	387.967	392.469
50.0	252.506	281.153	339.676	365.049	366.686
52.5	233.681	261.919	316.349	340.085	340.904
55.0	216.083	241.866	293.431	313.075	314.303
57.5	198.485	222.222	269.694	287.292	287.701
60.0	180.478	202.168	245.549	261.100	261.510
62.5	162.471	183.343	220.994	235.318	234.090
65.0	145.692	163.290	197.257	207.898	207.489
67.5	129.322	143.646	173.521	182.525	181.706
70.0	111.725	124.821	150.194	156.742	154.696
72.5	96.173	106.404	127.276	132.187	130.550
75.0	80.213	88.807	105.177	108.451	107.632
77.5	65.480	71.209	83.896	86.351	85.533
80.0	50.747	55.248	63.843	65.480	63.433
82.5	37.242	39.697	45.017	45.836	44.199
85.0	23.736	24.964	27.829	27.010	27.010
87.5	11.050	11.050	11.459	10.640	10.231
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-S-835-WSO-DSO-ITL89033-ITL92993.004.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-S-835-WSO-DSO-ITL89033-ITL92993.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	192.25	N.A.	3.30
0-30	415.71	N.A.	7.10
0-40	689.37	N.A.	11.80
0-60	1220.29	N.A.	20.90
0-80	1510.14	N.A.	25.80
0-90	1540.14	N.A.	26.40
10-90	1491.39	N.A.	25.50
20-40	497.12	N.A.	8.50
20-50	779.07	N.A.	13.30
40-70	715.56	N.A.	12.20
60-80	289.85	N.A.	5.00
70-80	105.20	N.A.	1.80
80-90	30.00	N.A.	0.50
90-110	581.48	N.A.	10.00
90-120	1385.14	N.A.	23.70
90-130	2237.22	N.A.	38.30
90-150	3574.02	N.A.	61.20
90-180	4302.09	N.A.	73.60
110-180	3720.6	N.A.	63.70
0-180	5842.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.75
10-20	143.50
20-30	223.45
30-40	273.67
40-50	281.95
50-60	248.97
60-70	184.64
70-80	105.20
80-90	30.00
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

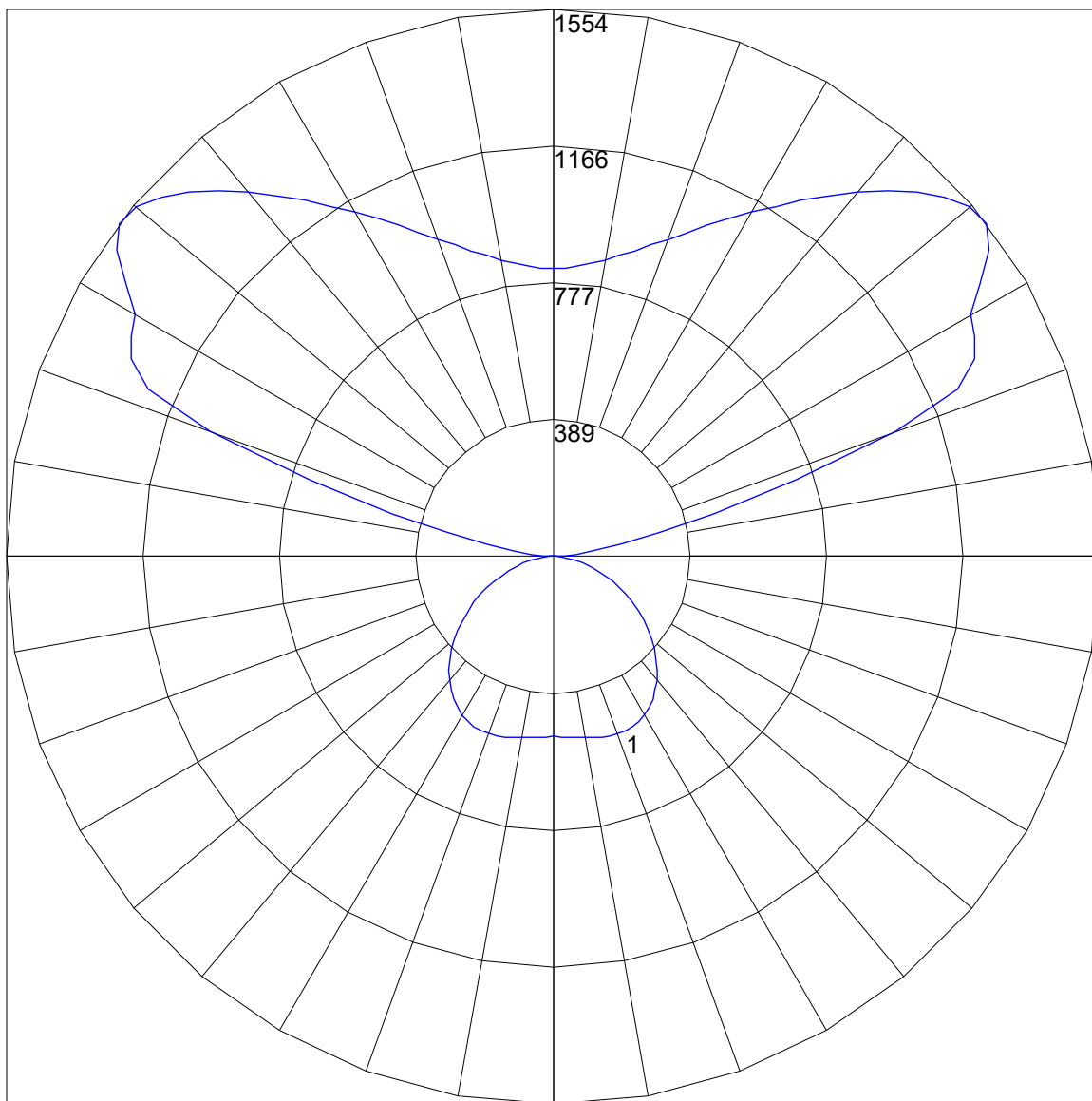
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	92	88	84	81	82	79	76	73	61	59	57	45	44	43	30	30	29	22
2	84	77	71	66	75	69	64	60	54	50	47	40	37	35	27	25	24	18
3	77	67	60	55	68	60	54	50	47	43	40	35	32	30	23	22	20	15
4	70	59	52	46	62	53	47	42	42	37	33	31	28	25	21	19	18	13
5	64	53	45	39	57	47	41	36	37	32	29	28	24	22	19	17	15	11
6	59	47	39	34	52	42	36	31	33	28	25	25	22	19	17	15	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	17	15	13	12	9
8	50	38	31	26	45	34	28	23	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	18	23	18	15	17	14	12	12	10	8	6

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.)