

# 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-DSO-ITL89033-ITL92993.005.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.005 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-B-835-WSO-DSO

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 54.8 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 56.2 WATTS

[OTHER]see [www.finelite.com](http://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](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

[\_ABSOLUTE]LUMENS]6239

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6239
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	54.8
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	4285	5636	6146
55	3945	5357	5738
65	3610	4888	5141
75	3245	4255	4355
85	2852	3344	3245

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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	643.436	643.436	643.436	643.436	643.436
2.5	641.892	642.407	643.436	643.951	644.466
5.0	638.803	639.833	642.922	646.010	647.039
7.5	633.141	636.230	642.407	648.584	650.643
10.0	626.449	629.538	640.862	652.702	656.305
12.5	619.758	622.332	639.833	658.364	662.997
15.0	611.007	619.758	639.318	662.482	668.144
17.5	591.961	601.227	638.803	664.026	672.262
20.0	576.004	587.329	637.774	664.026	673.292
22.5	560.047	573.430	625.420	661.967	672.777
25.0	542.031	561.591	616.154	657.335	669.174
27.5	520.411	544.604	606.374	650.643	661.967
30.0	499.821	525.559	594.535	640.862	651.158
32.5	478.202	508.057	583.211	629.538	637.774
35.0	456.582	489.012	564.165	614.096	620.273
37.5	433.419	467.907	545.634	591.447	599.683
40.0	411.799	446.287	525.044	567.768	577.034
42.5	387.091	425.183	502.910	544.090	550.781
45.0	363.928	401.504	478.717	515.779	521.956
47.5	341.279	377.826	454.009	487.982	493.644
50.0	317.600	353.633	427.242	459.156	461.215
52.5	293.922	329.439	397.901	427.756	428.786
55.0	271.788	304.217	369.075	393.783	395.327
57.5	249.653	279.509	339.220	361.354	361.869
60.0	227.004	254.286	308.849	328.410	328.925
62.5	204.355	230.608	277.964	295.981	294.436
65.0	183.251	205.385	248.109	261.493	260.978
67.5	162.661	180.677	218.254	229.578	228.549
70.0	140.526	156.998	188.913	197.149	194.575
72.5	120.966	133.835	160.087	166.264	164.205
75.0	100.891	111.701	132.291	136.409	135.379
77.5	82.360	89.566	105.523	108.612	107.582
80.0	63.829	69.491	80.301	82.360	79.786
82.5	46.842	49.931	56.622	57.652	55.593
85.0	29.855	31.400	35.003	33.973	33.973
87.5	13.898	13.898	14.413	13.383	12.869
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-DSO-ITL89033-ITL92993.005.IES****CANDELA TABULATION - (Cont.)**

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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-835-WSO-DSO-ITL89033-ITL92993.005.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	241.81	N.A.	3.90
0-30	522.87	N.A.	8.40
0-40	867.09	N.A.	13.90
0-60	1534.88	N.A.	24.60
0-80	1899.44	N.A.	30.40
0-90	1937.17	N.A.	31.00
10-90	1875.86	N.A.	30.10
20-40	625.28	N.A.	10.00
20-50	979.91	N.A.	15.70
40-70	900.03	N.A.	14.40
60-80	364.57	N.A.	5.80
70-80	132.33	N.A.	2.10
80-90	37.73	N.A.	0.60
90-110	581.48	N.A.	9.30
90-120	1385.14	N.A.	22.20
90-130	2237.22	N.A.	35.90
90-150	3574.02	N.A.	57.30
90-180	4302.09	N.A.	69.00
110-180	3720.6	N.A.	59.60
0-180	6239.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.32
10-20	180.50
20-30	281.06
30-40	344.22
40-50	354.63
50-60	313.15
60-70	232.24
70-80	132.33
80-90	37.73
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

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

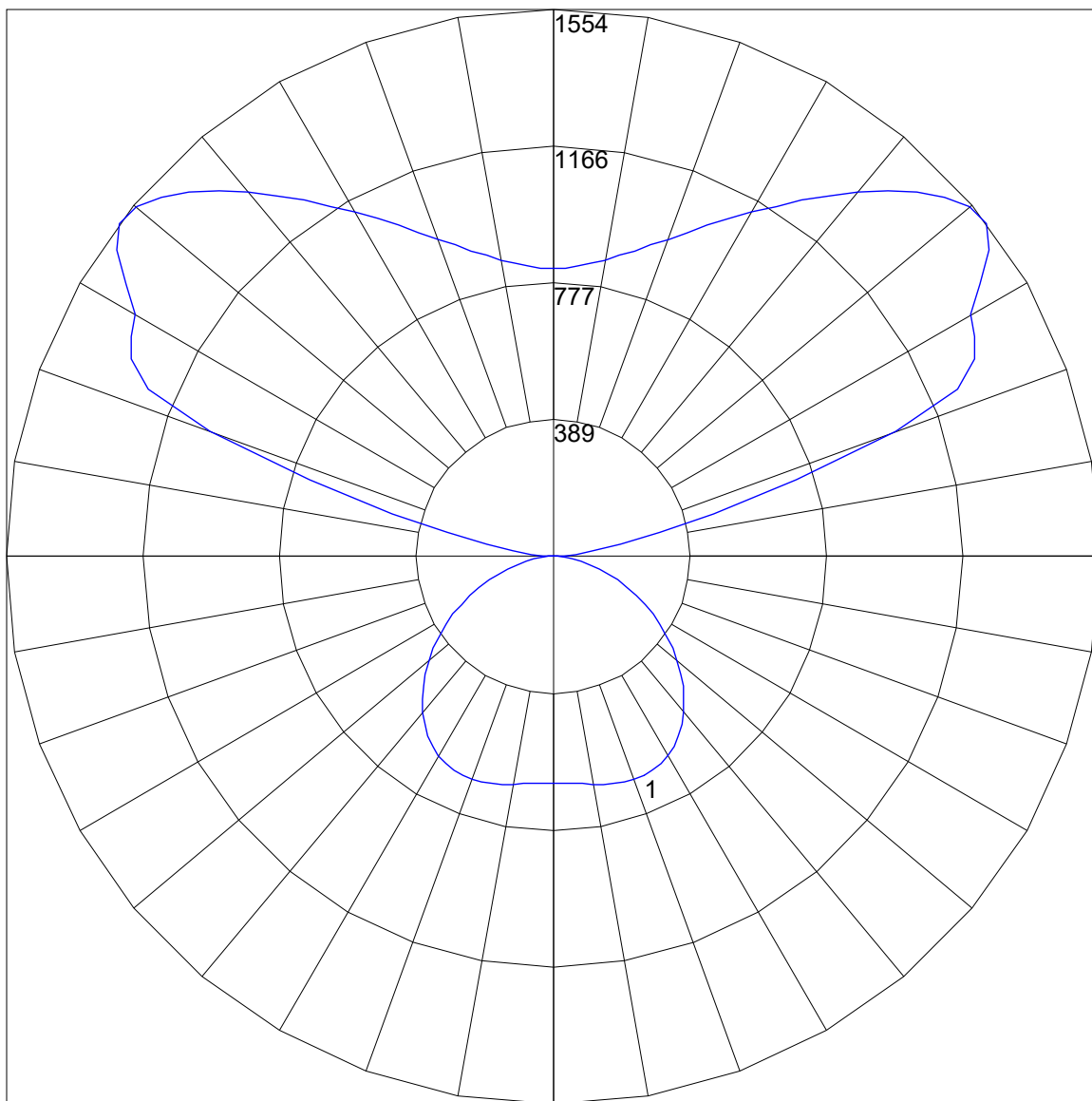
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	93	89	85	82	84	80	77	74	64	61	59	48	47	46	34	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22
3	77	68	61	55	69	61	55	50	49	45	41	37	34	32	26	25	23	18
4	71	60	52	47	63	54	48	43	43	39	35	33	30	27	23	21	20	16
5	65	53	46	40	58	48	41	36	39	34	30	29	26	23	21	19	17	13
6	60	48	40	34	53	43	36	31	35	30	26	27	23	20	19	17	15	12
7	55	43	35	30	49	39	32	27	31	26	23	24	20	18	17	15	13	10
8	51	39	31	26	46	35	29	24	28	23	20	22	18	16	16	13	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	39	29	23	19	24	19	16	18	15	13	13	11	10	7

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## 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.)