

# 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-ID-4FT-H-V-837-XXIC-WSO-DSO-ITL89456-ITL94139.207.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.207 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]05/03/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-H-V-837-XXIC-WSO-DSO

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 61.9 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 61.9 WATTS

[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL89456 and ITL94139. 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]6206

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6206
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	61.9
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.18 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13412	16953	17411
55	12196	15610	15610
65	10942	13869	13485
75	9730	11835	11209
85	8448	8955	8110

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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	1131.020	1131.020	1131.020	1131.020	1131.020
2.5	1129.080	1129.080	1130.050	1131.990	1131.990
5.0	1123.260	1124.230	1129.080	1133.930	1135.870
7.5	1112.590	1116.470	1125.200	1135.870	1141.690
10.0	1099.010	1103.860	1123.260	1143.630	1150.420
12.5	1082.520	1088.340	1121.320	1149.450	1157.210
15.0	1060.210	1069.910	1115.500	1151.390	1161.090
17.5	1036.930	1049.540	1107.740	1151.390	1163.030
20.0	1007.830	1026.260	1098.040	1146.540	1159.150
22.5	976.790	999.100	1081.550	1135.870	1150.420
25.0	941.870	971.940	1063.120	1121.320	1134.900
27.5	906.950	942.840	1041.780	1100.950	1114.530
30.0	869.120	911.800	1014.620	1073.790	1084.460
32.5	830.320	876.880	986.490	1042.750	1051.480
35.0	789.580	840.020	954.480	1004.920	1010.740
37.5	749.810	803.160	916.650	963.210	966.120
40.0	707.130	764.360	875.910	918.590	916.650
42.5	666.390	723.620	834.200	868.150	864.270
45.0	624.680	681.910	789.580	816.740	810.920
47.5	583.940	640.200	741.080	763.390	757.570
50.0	541.260	597.520	691.610	708.100	698.400
52.5	499.550	552.900	641.170	653.780	644.080
55.0	460.750	509.250	589.760	597.520	589.760
57.5	420.010	465.600	538.350	543.200	530.590
60.0	381.210	420.980	486.940	490.820	478.210
62.5	344.350	378.300	437.470	436.500	426.800
65.0	304.580	337.560	386.060	385.090	375.390
67.5	269.660	295.850	337.560	334.650	324.950
70.0	233.770	256.080	291.000	286.150	277.420
72.5	198.850	217.280	245.410	240.560	232.800
75.0	165.870	179.450	201.760	196.910	191.090
77.5	134.830	144.530	160.050	155.200	150.350
80.0	105.730	110.580	122.220	116.400	112.520
82.5	77.600	79.540	85.360	81.480	78.570
85.0	48.500	50.440	51.410	48.500	46.560
87.5	22.310	22.310	20.370	19.400	17.460
90.0	0.000	0.000	0.000	0.000	0.000
92.5	13.580	23.387	23.387	22.633	22.633
95.0	35.458	62.617	62.617	52.055	51.300
97.5	59.599	102.601	125.988	90.530	85.249
100.0	84.495	133.532	250.467	145.603	128.251
102.5	111.654	162.954	346.278	257.256	204.447
105.0	138.058	194.640	401.350	419.456	345.523
107.5	164.463	225.571	435.299	565.813	527.338
110.0	190.868	254.239	465.476	651.817	658.607
112.5	217.272	282.152	500.933	708.398	737.066
115.0	244.431	308.557	543.181	749.137	790.630
117.5	271.590	334.961	589.200	787.612	832.123
120.0	298.749	362.875	626.921	828.350	873.615
122.5	323.645	386.262	654.080	885.686	917.372
125.0	347.032	408.894	669.168	948.303	979.988
127.5	368.910	430.018	678.221	990.550	1049.395
130.0	387.016	448.124	683.502	1007.902	1099.186
132.5	405.122	464.721	685.011	1001.112	1115.029

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-837-XXIC-WSO-DSO-ITL89456-ITL94139.207.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	420.965	478.301	684.257	979.988	1099.186
<b>137.5</b>	435.299	491.126	681.993	951.320	1065.992
<b>140.0</b>	449.633	502.442	678.221	919.635	1023.745
<b>142.5</b>	463.212	513.004	672.940	884.177	978.480
<b>145.0</b>	477.546	522.811	667.660	850.228	932.460
<b>147.5</b>	489.617	530.355	661.624	815.525	885.686
<b>150.0</b>	501.688	538.654	654.080	784.594	841.930
<b>152.5</b>	513.004	544.689	645.027	755.172	801.191
<b>155.0</b>	523.566	549.216	635.974	726.504	763.471
<b>157.5</b>	533.373	555.251	627.675	700.099	729.522
<b>160.0</b>	541.672	559.023	617.868	674.449	697.836
<b>162.5</b>	549.216	562.041	608.061	652.571	668.414
<b>165.0</b>	555.251	565.059	598.253	631.447	643.518
<b>167.5</b>	560.532	567.322	590.709	613.341	621.640
<b>170.0</b>	565.059	569.585	585.428	599.008	604.288
<b>172.5</b>	567.322	571.094	579.393	586.937	591.463
<b>175.0</b>	570.340	571.848	575.621	579.393	580.901
<b>177.5</b>	571.848	571.848	573.357	573.357	574.112
<b>180.0</b>	572.603	572.603	572.603	572.603	572.603

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-837-XXIC-WSO-DSO-ITL89456-ITL94139.207.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	421.73	N.A.	6.80
0-30	904.65	N.A.	14.60
0-40	1482.36	N.A.	23.90
0-60	2558.13	N.A.	41.20
0-80	3118.59	N.A.	50.20
0-90	3175.27	N.A.	51.20
10-90	3067.69	N.A.	49.40
20-40	1060.63	N.A.	17.10
20-50	1639.8	N.A.	26.40
40-70	1435.08	N.A.	23.10
60-80	560.47	N.A.	9.00
70-80	201.16	N.A.	3.20
80-90	56.68	N.A.	0.90
90-110	396.66	N.A.	6.40
90-120	920.00	N.A.	14.80
90-130	1518.24	N.A.	24.50
90-150	2508.84	N.A.	40.40
90-180	3031.1	N.A.	48.80
110-180	2634.44	N.A.	42.40
0-180	6206.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.59
10-20	314.14
20-30	482.92
30-40	577.71
40-50	579.17
50-60	496.60
60-70	359.31
70-80	201.16
80-90	56.68
90-100	69.19
100-110	327.47
110-120	523.34
120-130	598.23
130-140	559.13
140-150	431.48
150-160	296.59
160-170	170.44
170-180	55.22

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

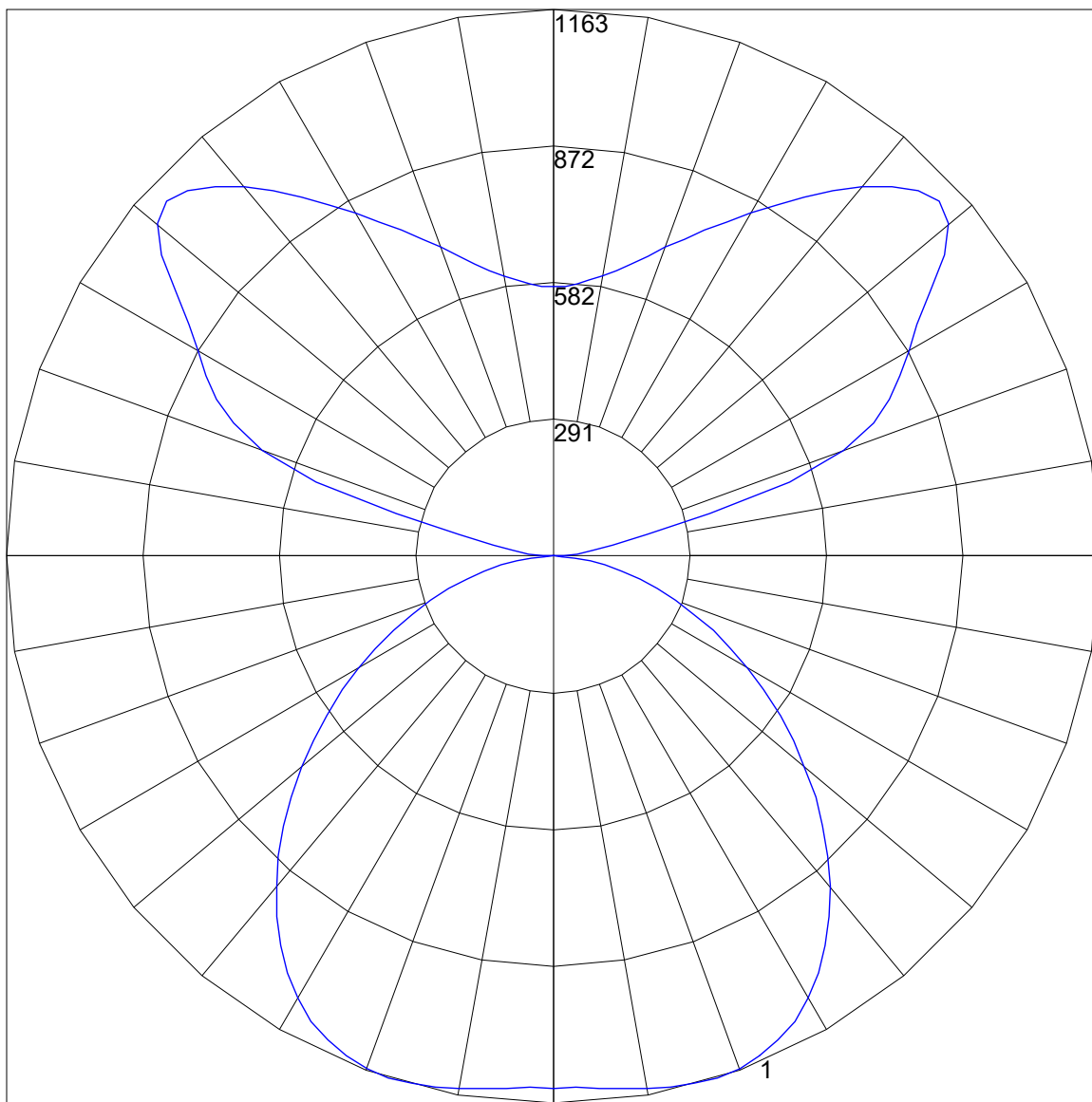
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	51	49	48	43
2	89	82	76	70	82	76	70	66	65	61	57	54	51	49	44	42	41	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	31
4	74	64	56	50	68	59	52	47	51	45	41	43	38	35	35	32	30	26
5	68	57	48	42	63	53	45	40	45	40	35	38	34	30	32	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	32	54	43	36	30	37	31	27	31	27	24	26	23	20	18
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	13

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## POLAR GRAPH



Maximum Candela = 1163.03 Located At Horizontal Angle = 90, Vertical Angle = 17.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)