

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-V-V-837-XXIC-WSO-DSO-ITL89456-ITL94139.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.200 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]04/27/2021

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 70.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 69.9 WATTS

[OTHER]see 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

[_ABSOLUTE]LUMENS]7072

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	70
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-837-XXIC-WSO-DSO-ITL89456-ITL94139.200.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	1131.02	1131.02	1131.02	1131.02	1131.02
2.5	1129.08	1129.08	1130.05	1131.99	1131.99
5.0	1123.26	1124.23	1129.08	1133.93	1135.87
7.5	1112.59	1116.47	1125.20	1135.87	1141.69
10.0	1099.01	1103.86	1123.26	1143.63	1150.42
12.5	1082.52	1088.34	1121.32	1149.45	1157.21
15.0	1060.21	1069.91	1115.50	1151.39	1161.09
17.5	1036.93	1049.54	1107.74	1151.39	1163.03
20.0	1007.83	1026.26	1098.04	1146.54	1159.15
22.5	976.79	999.10	1081.55	1135.87	1150.42
25.0	941.87	971.94	1063.12	1121.32	1134.90
27.5	906.95	942.84	1041.78	1100.95	1114.53
30.0	869.12	911.80	1014.62	1073.79	1084.46
32.5	830.32	876.88	986.49	1042.75	1051.48
35.0	789.58	840.02	954.48	1004.92	1010.74
37.5	749.81	803.16	916.65	963.21	966.12
40.0	707.13	764.36	875.91	918.59	916.65
42.5	666.39	723.62	834.20	868.15	864.27
45.0	624.68	681.91	789.58	816.74	810.92
47.5	583.94	640.20	741.08	763.39	757.57
50.0	541.26	597.52	691.61	708.10	698.40
52.5	499.55	552.90	641.17	653.78	644.08
55.0	460.75	509.25	589.76	597.52	589.76
57.5	420.01	465.60	538.35	543.20	530.59
60.0	381.21	420.98	486.94	490.82	478.21
62.5	344.35	378.30	437.47	436.50	426.80
65.0	304.58	337.56	386.06	385.09	375.39
67.5	269.66	295.85	337.56	334.65	324.95
70.0	233.77	256.08	291.00	286.15	277.42
72.5	198.85	217.28	245.41	240.56	232.80
75.0	165.87	179.45	201.76	196.91	191.09
77.5	134.83	144.53	160.05	155.20	150.35
80.0	105.73	110.58	122.22	116.40	112.52
82.5	77.60	79.54	85.36	81.48	78.57
85.0	48.50	50.44	51.41	48.50	46.56
87.5	22.31	22.31	20.37	19.40	17.46
90.0	0.00	0.00	0.00	0.00	0.00
92.5	17.46	30.07	30.07	29.10	29.10
95.0	45.59	80.51	80.51	66.93	65.96
97.5	76.63	131.92	161.99	116.40	109.61
100.0	108.64	171.69	322.04	187.21	164.90
102.5	143.56	209.52	445.23	330.77	262.87
105.0	177.51	250.26	516.04	539.32	444.26
107.5	211.46	290.03	559.69	727.50	678.03
110.0	245.41	326.89	598.49	838.08	846.81
112.5	279.36	362.78	644.08	910.83	947.69
115.0	314.28	396.73	698.40	963.21	1016.56
117.5	349.20	430.68	757.57	1012.68	1069.91
120.0	384.12	466.57	806.07	1065.06	1123.26
122.5	416.13	496.64	840.99	1138.78	1179.52
125.0	446.20	525.74	860.39	1219.29	1260.03
127.5	474.33	552.90	872.03	1273.61	1349.27
130.0	497.61	576.18	878.82	1295.92	1413.29
132.5	520.89	597.52	880.76	1287.19	1433.66

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-837-XXIC-WSO-DSO-ITL89456-ITL94139.200.IES****CANDELA TABULATION - (Cont.)**

135.0	541.26	614.98	879.79	1260.03	1413.29
137.5	559.69	631.47	876.88	1223.17	1370.61
140.0	578.12	646.02	872.03	1182.43	1316.29
142.5	595.58	659.60	865.24	1136.84	1258.09
145.0	614.01	672.21	858.45	1093.19	1198.92
147.5	629.53	681.91	850.69	1048.57	1138.78
150.0	645.05	692.58	840.99	1008.80	1082.52
152.5	659.60	700.34	829.35	970.97	1030.14
155.0	673.18	706.16	817.71	934.11	981.64
157.5	685.79	713.92	807.04	900.16	937.99
160.0	696.46	718.77	794.43	867.18	897.25
162.5	706.16	722.65	781.82	839.05	859.42
165.0	713.92	726.53	769.21	811.89	827.41
167.5	720.71	729.44	759.51	788.61	799.28
170.0	726.53	732.35	752.72	770.18	776.97
172.5	729.44	734.29	744.96	754.66	760.48
175.0	733.32	735.26	740.11	744.96	746.90
177.5	735.26	735.26	737.20	737.20	738.17
180.0	736.23	736.23	736.23	736.23	736.23

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-837-XXIC-WSO-DSO-ITL89456-ITL94139.200.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	421.73	N.A.	6.00
0-30	904.65	N.A.	12.80
0-40	1482.36	N.A.	21.00
0-60	2558.13	N.A.	36.20
0-80	3118.59	N.A.	44.10
0-90	3175.27	N.A.	44.90
10-90	3067.69	N.A.	43.40
20-40	1060.63	N.A.	15.00
20-50	1639.8	N.A.	23.20
40-70	1435.08	N.A.	20.30
60-80	560.47	N.A.	7.90
70-80	201.16	N.A.	2.80
80-90	56.68	N.A.	0.80
90-110	510.01	N.A.	7.20
90-120	1182.9	N.A.	16.70
90-130	1952.09	N.A.	27.60
90-150	3225.77	N.A.	45.60
90-180	3897.27	N.A.	55.10
110-180	3387.26	N.A.	47.90
0-180	7072.54	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	88.96
100-110	421.05
110-120	672.89
120-130	769.19
130-140	718.90
140-150	554.78
150-160	381.35
160-170	219.15
170-180	71.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

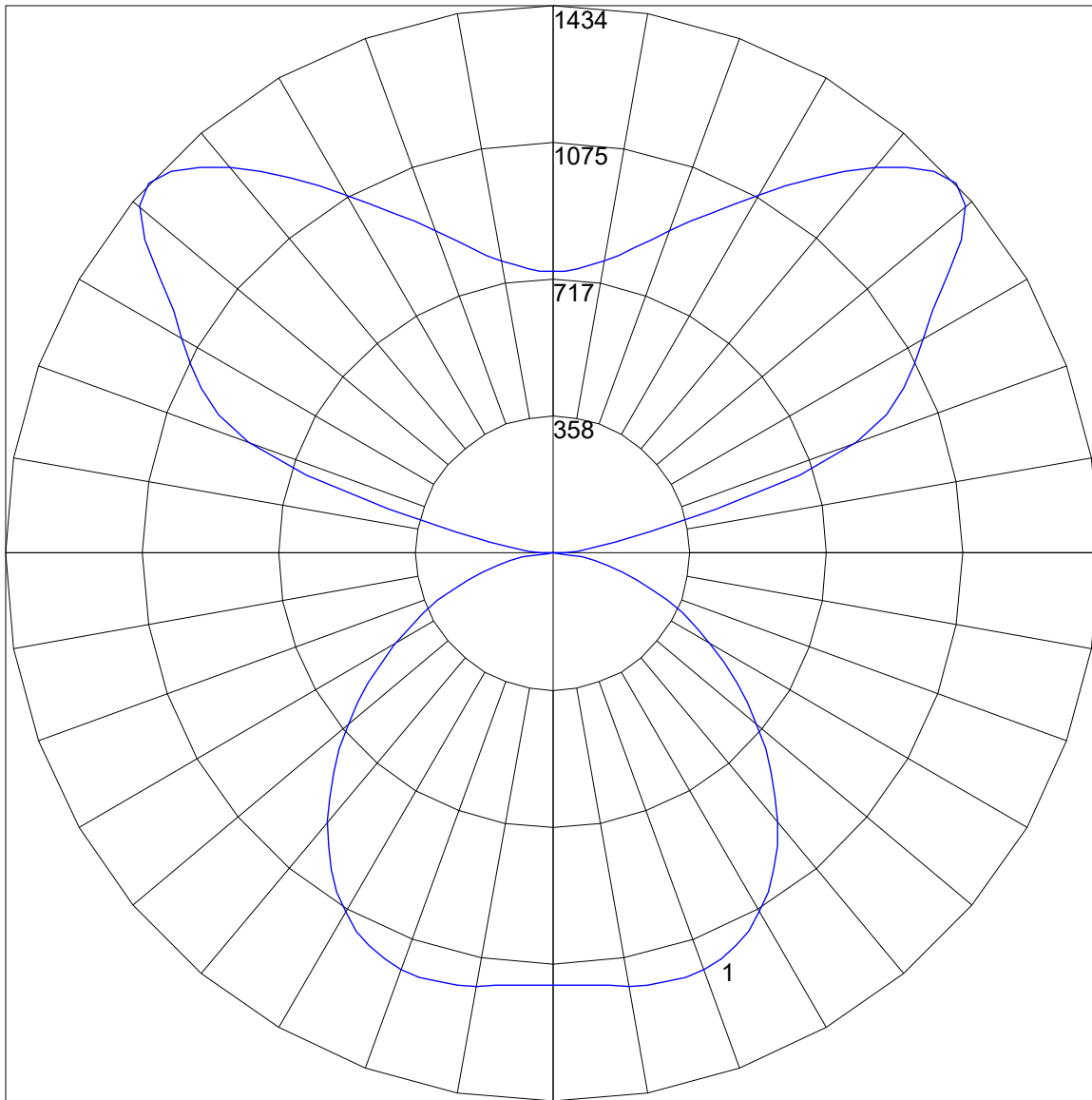
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	92	88	85	88	85	81	78	71	68	66	57	56	54	45	44	43	38
2	88	81	75	69	80	74	69	64	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	54	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	28	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	22	19	22	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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POLAR GRAPH



Maximum Candela = 1433.66 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)