

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-S-S-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.203 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]06/23/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-S-S-835-WSO-DSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 30.8 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]2985

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2985
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	28.2
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	5661	7155	7349
55	5147	6589	6589
65	4618	5854	5692
75	4107	4995	4731
85	3566	3780	3423

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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	477.372	477.372	477.372	477.372	477.372
2.5	476.554	476.554	476.963	477.782	477.782
5.0	474.097	474.507	476.554	478.601	479.420
7.5	469.594	471.231	474.916	479.420	481.876
10.0	463.862	465.909	474.097	482.695	485.561
12.5	456.902	459.358	473.278	485.151	488.426
15.0	447.485	451.580	470.822	485.970	490.064
17.5	437.660	442.982	467.547	485.970	490.883
20.0	425.377	433.156	463.452	483.923	489.245
22.5	412.276	421.693	456.493	479.420	485.561
25.0	397.537	410.229	448.714	473.278	479.010
27.5	382.799	397.947	439.707	464.681	470.412
30.0	366.832	384.846	428.243	453.217	457.721
32.5	350.455	370.107	416.370	440.116	443.801
35.0	333.260	354.549	402.860	424.149	426.606
37.5	316.474	338.992	386.893	406.544	407.773
40.0	298.460	322.615	369.697	387.712	386.893
42.5	281.265	305.420	352.093	366.422	364.785
45.0	263.660	287.815	333.260	344.724	342.267
47.5	246.465	270.211	312.789	322.206	319.750
50.0	228.451	252.197	291.909	298.870	294.775
52.5	210.846	233.364	270.620	275.942	271.848
55.0	194.470	214.940	248.922	252.197	248.922
57.5	177.275	196.517	227.223	229.270	223.947
60.0	160.898	177.684	205.524	207.162	201.839
62.5	145.341	159.670	184.644	184.235	180.141
65.0	128.555	142.475	162.945	162.536	158.442
67.5	113.816	124.870	142.475	141.247	137.153
70.0	98.668	108.084	122.823	120.776	117.091
72.5	83.929	91.708	103.581	101.534	98.258
75.0	70.009	75.741	85.157	83.110	80.654
77.5	56.908	61.002	67.553	65.506	63.459
80.0	44.626	46.673	51.586	49.129	47.492
82.5	32.753	33.572	36.028	34.391	33.162
85.0	20.471	21.289	21.699	20.471	19.652
87.5	9.416	9.416	8.598	8.188	7.369
90.0	0.000	0.000	0.000	0.000	0.000
92.5	7.369	12.692	12.692	12.282	12.282
95.0	19.242	33.981	33.981	28.249	27.840
97.5	32.343	55.679	68.371	49.129	46.263
100.0	45.854	72.465	135.923	79.016	69.599
102.5	60.592	88.432	187.918	139.608	110.950
105.0	74.922	105.627	217.805	227.631	187.509
107.5	89.251	122.413	236.228	307.056	286.176
110.0	103.580	137.970	252.605	353.728	357.413
112.5	117.909	153.119	271.847	384.434	399.992
115.0	132.648	167.448	294.774	406.542	429.060
117.5	147.387	181.777	319.748	427.422	451.577
120.0	162.126	196.925	340.218	449.530	474.094
122.5	175.636	209.617	354.957	480.645	497.840
125.0	188.328	221.899	363.145	514.626	531.821
127.5	200.201	233.363	368.058	537.553	569.486
130.0	210.026	243.188	370.924	546.969	596.507
132.5	219.852	252.195	371.743	543.284	605.105

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135.0	228.450	259.565	371.333	531.821	596.507
137.5	236.228	266.525	370.105	516.264	578.494
140.0	244.007	272.666	368.058	499.068	555.567
142.5	251.376	278.397	365.192	479.826	531.002
145.0	259.155	283.720	362.326	461.403	506.028
147.5	265.706	287.814	359.051	442.570	480.645
150.0	272.256	292.317	354.957	425.784	456.899
152.5	278.397	295.593	350.044	409.817	434.791
155.0	284.129	298.049	345.131	394.260	414.321
157.5	289.451	301.324	340.627	379.931	395.897
160.0	293.955	303.371	335.305	366.011	378.702
162.5	298.049	305.009	329.983	354.138	362.736
165.0	301.324	306.647	324.661	342.675	349.225
167.5	304.190	307.875	320.567	332.849	337.352
170.0	306.647	309.103	317.701	325.070	327.936
172.5	307.875	309.922	314.425	318.519	320.976
175.0	309.512	310.331	312.378	314.425	315.244
177.5	310.331	310.331	311.150	311.150	311.560
180.0	310.741	310.741	310.741	310.741	310.741

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Zone	Lumens	%Lamp	%Fixt
0-20	178.00	N.A.	6.00
0-30	381.83	N.A.	12.80
0-40	625.66	N.A.	21.00
0-60	1079.72	N.A.	36.20
0-80	1316.27	N.A.	44.10
0-90	1340.2	N.A.	44.90
10-90	1294.79	N.A.	43.40
20-40	447.66	N.A.	15.00
20-50	692.11	N.A.	23.20
40-70	605.71	N.A.	20.30
60-80	236.56	N.A.	7.90
70-80	84.90	N.A.	2.80
80-90	23.92	N.A.	0.80
90-110	215.26	N.A.	7.20
90-120	499.27	N.A.	16.70
90-130	823.92	N.A.	27.60
90-150	1361.5	N.A.	45.60
90-180	1644.92	N.A.	55.10
110-180	1429.66	N.A.	47.90
0-180	2985.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.41
10-20	132.59
20-30	203.83
30-40	243.84
40-50	244.45
50-60	209.60
60-70	151.65
70-80	84.90
80-90	23.92
90-100	37.55
100-110	177.71
110-120	284.01
120-130	324.65
130-140	303.43
140-150	234.16
150-160	160.96
160-170	92.50
170-180	29.97

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

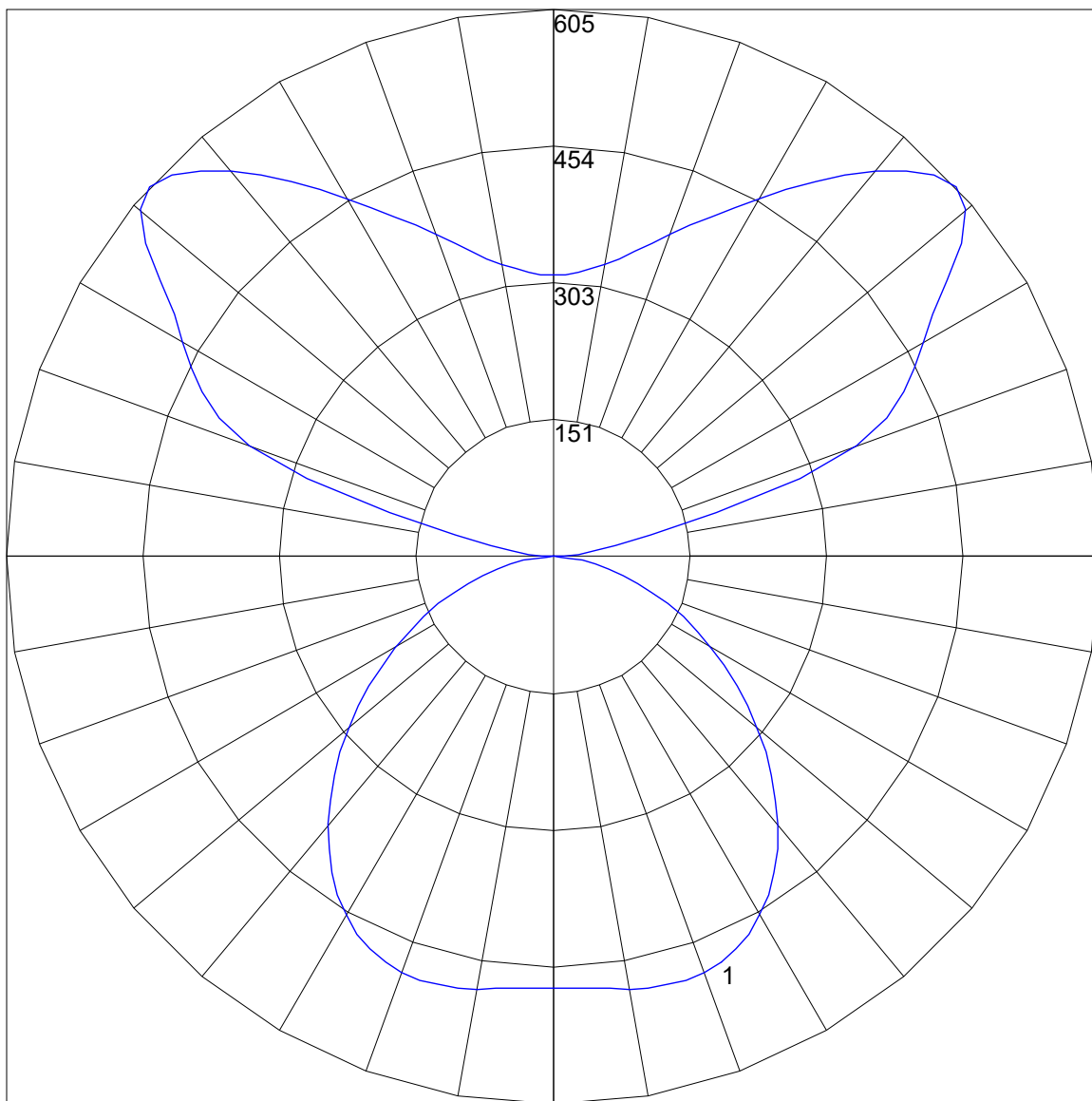
Effective Floor Cavity Reflectance 0.20

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	81	81	81	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 = 605.105 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)