

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-H-835-WSO-MLW-ITL89456-KPL2008-7.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFACT]FINELITE, INC.
[LUMCAT]HP2ID-4ft-H-H-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 55.6 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 55.6 WATTS
[OTHER]see www.finelite.com for source files ITL89456 and KPL2008-7. For further details on Finelite family correlation files, go
[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf
[ABSOLUTE LUMENS]5819

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5818
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	55.6
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	3941	3851	3729
55	3284	3191	3037
65	2801	2650	2479
75	2373	2201	1988
85	1866	1685	1512

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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	6767.421	6767.421	6767.421	6767.421	6767.421
2.5	6614.016	6653.829	6623.512	6628.995	6641.773
5.0	6239.997	6285.660	6275.790	6281.273	6299.900
7.5	5646.385	5720.498	5743.691	5793.989	5791.905
10.0	4825.441	4980.901	5147.233	5243.007	5255.855
12.5	3940.363	4103.670	4470.564	4635.185	4670.285
15.0	3210.581	3382.987	3745.681	3995.226	3986.383
17.5	2499.356	2688.966	3064.478	3236.076	3135.192
20.0	1744.304	2004.955	2394.747	2497.497	2455.677
22.5	1173.193	1464.636	1804.059	1914.626	1861.917
25.0	791.723	943.745	1370.068	1448.303	1381.975
27.5	568.132	630.594	906.996	906.342	812.179
30.0	414.765	477.437	579.511	570.473	526.421
32.5	316.207	359.980	408.784	393.276	388.018
35.0	263.918	280.726	307.597	304.097	294.484
37.5	240.539	242.926	254.647	246.753	233.321
40.0	220.262	222.230	219.267	210.416	206.154
42.5	201.931	203.463	196.463	190.684	190.521
45.0	183.544	185.590	179.352	174.965	173.659
47.5	160.857	168.837	163.213	159.947	157.396
50.0	150.948	152.597	148.918	146.352	145.558
52.5	137.773	138.597	134.172	130.057	128.572
55.0	124.069	124.629	120.553	117.473	114.751
57.5	111.259	111.508	107.417	103.824	102.245
60.0	99.141	99.538	95.470	92.056	90.524
62.5	88.447	88.035	84.216	81.128	79.277
65.0	77.971	77.465	73.771	70.730	69.019
67.5	67.385	67.463	63.808	61.070	59.203
70.0	57.912	57.726	54.568	51.947	50.041
72.5	48.392	48.501	45.764	43.290	41.548
75.0	40.459	40.047	37.519	35.450	33.895
77.5	32.230	31.460	29.796	28.108	26.872
80.0	24.966	24.360	22.695	21.225	20.572
82.5	17.399	17.196	15.866	15.003	14.186
85.0	10.710	10.282	9.675	9.022	8.680
87.5	4.371	4.464	4.013	3.749	3.562
90.0	0.000	0.000	0.000	0.000	0.000
92.5	14.000	24.111	24.111	23.333	23.333
95.0	36.555	64.554	64.554	53.666	52.888
97.5	61.443	105.776	129.886	93.332	87.887
100.0	87.109	137.664	258.217	150.108	132.220
102.5	115.109	167.997	356.993	265.217	210.774
105.0	142.331	200.663	413.770	432.436	356.215
107.5	169.552	232.551	448.769	583.322	543.656
110.0	196.774	262.106	479.880	671.987	678.987
112.5	223.996	290.883	516.434	730.319	759.874
115.0	251.995	318.105	559.989	772.318	815.095
117.5	279.995	345.327	607.433	811.984	857.872
120.0	307.994	374.104	646.321	853.983	900.649
122.5	333.660	398.214	674.320	913.093	945.759
125.0	357.771	421.547	689.875	977.648	1010.314
127.5	380.326	443.325	699.209	1021.202	1081.868
130.0	398.992	461.991	704.653	1039.091	1133.200
132.5	417.659	479.102	706.208	1032.091	1149.533

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-WSO-MLW-ITL89456-KPL2008-7.003.IES****CANDELA TABULATION - (Cont.)**

135.0	433.992	493.101	705.431	1010.314	1133.200
137.5	448.769	506.323	703.097	980.759	1098.979
140.0	463.547	517.990	699.209	948.093	1055.424
142.5	477.546	528.879	693.764	911.538	1008.758
145.0	492.324	538.989	688.320	876.538	961.315
147.5	504.768	546.767	682.098	840.761	913.093
150.0	517.212	555.322	674.320	808.873	867.983
152.5	528.879	561.545	664.987	778.540	825.984
155.0	539.767	566.211	655.654	748.985	787.096
157.5	549.878	572.433	647.098	721.764	752.096
160.0	558.434	576.322	636.988	695.320	719.430
162.5	566.211	579.433	626.877	672.765	689.098
165.0	572.433	582.544	616.766	650.987	663.431
167.5	577.878	584.877	608.988	632.321	640.876
170.0	582.544	587.211	603.544	617.543	622.988
172.5	584.877	588.766	597.322	605.099	609.766
175.0	587.989	589.544	593.433	597.322	598.877
177.5	589.544	589.544	591.100	591.100	591.877
180.0	590.322	590.322	590.322	590.322	590.322

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Zone	Lumens	%Lamp	%Fixt
0-20	1561.04	N.A.	26.80
0-30	2122.62	N.A.	36.50
0-40	2321.19	N.A.	39.90
0-60	2568.35	N.A.	44.10
0-80	2681.78	N.A.	46.10
0-90	2692.95	N.A.	46.30
10-90	2131.55	N.A.	36.60
20-40	760.15	N.A.	13.10
20-50	899.18	N.A.	15.50
40-70	320.63	N.A.	5.50
60-80	113.43	N.A.	1.90
70-80	39.96	N.A.	0.70
80-90	11.17	N.A.	0.20
90-110	408.94	N.A.	7.00
90-120	948.47	N.A.	16.30
90-130	1565.22	N.A.	26.90
90-150	2586.48	N.A.	44.50
90-180	3124.9	N.A.	53.70
110-180	2715.96	N.A.	46.70
0-180	5817.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	561.40
10-20	999.64
20-30	561.59
30-40	198.57
40-50	139.03
50-60	108.13
60-70	73.47
70-80	39.96
80-90	11.17
90-100	71.33
100-110	337.61
110-120	539.53
120-130	616.75
130-140	576.43
140-150	444.83
150-160	305.77
160-170	175.72
170-180	56.93

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

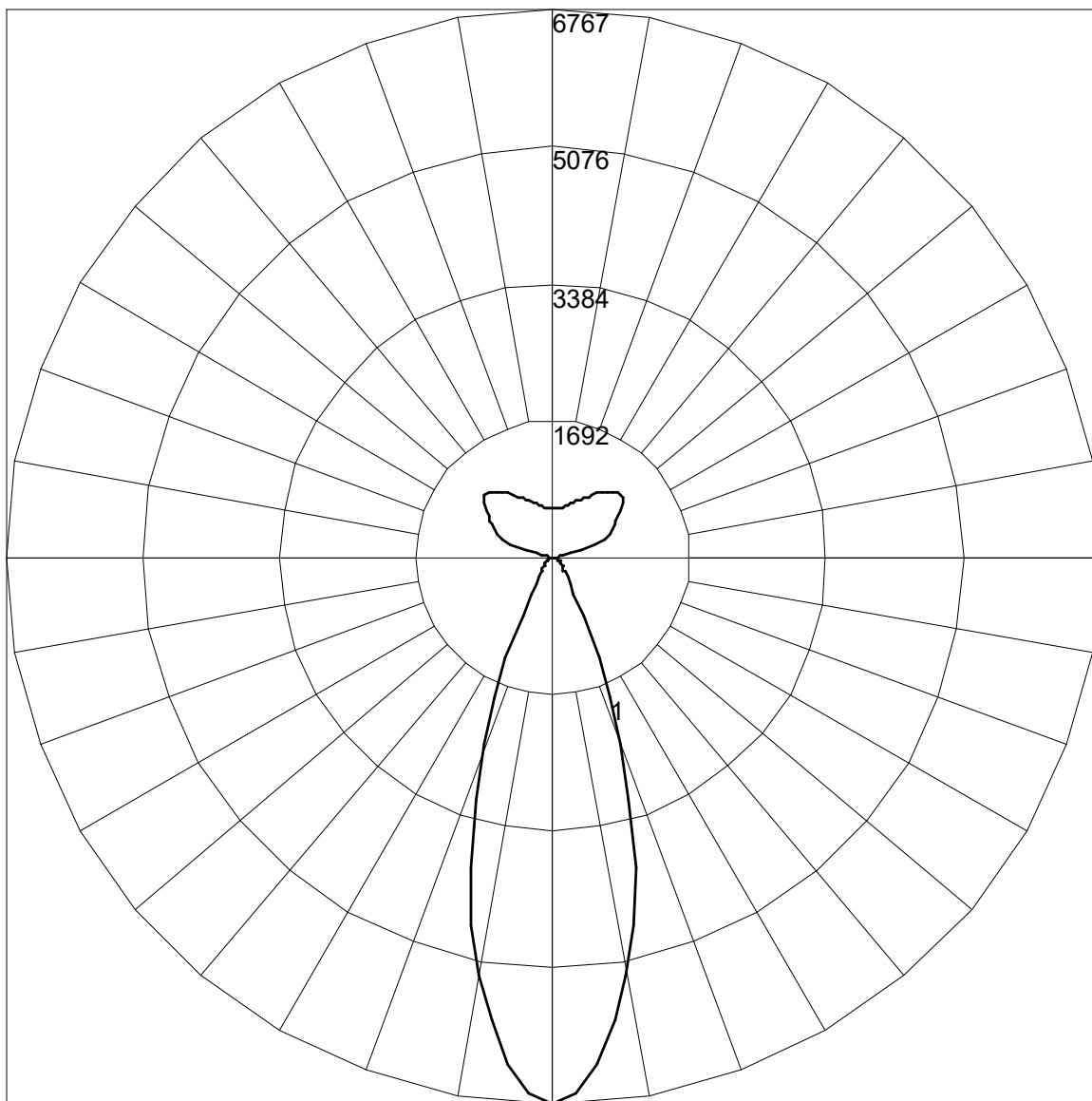
Effective Floor Cavity Reflectance 0.20

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	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	99	96	92	90	91	88	86	83	74	73	71	62	60	59	50	49	49	43
2	92	86	82	77	85	80	76	72	68	65	63	57	55	54	47	46	45	40
3	86	79	73	68	79	73	68	64	63	59	56	53	51	49	44	43	42	38
4	81	72	66	61	75	67	62	58	58	54	51	50	47	45	42	40	39	36
5	76	66	60	55	70	62	57	52	54	50	47	47	44	42	40	38	37	34
6	71	61	55	50	66	58	52	48	51	47	43	44	41	39	38	36	35	32
7	67	57	51	46	63	54	48	44	48	44	40	42	39	37	37	35	33	31
8	64	54	47	43	59	51	45	41	45	41	38	40	37	35	35	33	31	29
9	60	50	44	40	56	48	42	39	43	39	36	38	35	33	34	32	30	28
10	57	47	41	37	54	45	40	36	41	36	34	36	33	31	32	30	29	27

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POLAR GRAPH



Maximum Candela = 6767.421 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)