

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-B-H-835-WSO-MLW-ITL89456-KPL2008-7.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.011 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUEDATE]02/07/23
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-B-H-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 46.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 46.8 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]4762

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4761
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	46
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	3038
65	2801	2650	2480
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	6767.834	6767.833	6767.833	6767.833	6767.833
2.5	6614.418	6654.234	6623.916	6629.399	6642.179
5.0	6240.377	6286.042	6276.172	6281.656	6300.284
7.5	5646.730	5720.847	5744.042	5794.342	5792.258
10.0	4825.735	4981.204	5147.546	5243.326	5256.175
12.5	3940.603	4103.920	4470.836	4635.468	4670.570
15.0	3210.776	3383.194	3745.910	3995.470	3986.626
17.5	2499.508	2689.130	3064.665	3236.273	3135.383
20.0	1744.410	2005.078	2394.893	2497.649	2455.826
22.5	1173.264	1464.725	1804.169	1914.743	1862.031
25.0	791.772	943.802	1370.151	1448.391	1382.059
27.5	568.167	630.633	907.051	906.398	812.228
30.0	414.791	477.466	579.546	570.508	526.453
32.5	316.226	360.002	408.809	393.300	388.042
35.0	263.934	280.743	307.616	304.116	294.502
37.5	240.553	242.941	254.663	246.768	233.335
40.0	220.276	222.244	219.280	210.429	206.166
42.5	201.943	203.475	196.475	190.696	190.532
45.0	183.555	185.601	179.363	174.976	173.669
47.5	160.867	168.847	163.223	159.957	157.405
50.0	150.957	152.606	148.927	146.361	145.567
52.5	137.781	138.606	134.180	130.065	128.580
55.0	124.076	124.636	120.561	117.480	114.758
57.5	111.266	111.515	107.423	103.830	102.251
60.0	99.147	99.544	95.476	92.062	90.529
62.5	88.453	88.040	84.221	81.133	79.282
65.0	77.975	77.470	73.775	70.734	69.023
67.5	67.389	67.467	63.812	61.074	59.207
70.0	57.916	57.729	54.571	51.950	50.044
72.5	48.395	48.504	45.766	43.293	41.551
75.0	40.462	40.049	37.522	35.453	33.897
77.5	32.232	31.462	29.798	28.110	26.873
80.0	24.968	24.361	22.697	21.226	20.573
82.5	17.400	17.197	15.867	15.004	14.187
85.0	10.710	10.283	9.676	9.023	8.680
87.5	4.371	4.465	4.013	3.749	3.562
90.0	0.000	0.000	0.000	0.000	0.000
92.5	9.263	15.953	15.953	15.439	15.439
95.0	24.187	42.714	42.714	35.509	34.994
97.5	40.655	69.988	85.942	61.754	58.152
100.0	57.637	91.088	170.854	99.322	87.485
102.5	76.164	111.158	236.210	175.485	139.462
105.0	94.175	132.772	273.778	286.129	235.696
107.5	112.187	153.871	296.936	385.965	359.719
110.0	130.199	173.427	317.521	444.632	449.263
112.5	148.210	192.468	341.708	483.228	502.784
115.0	166.737	210.480	370.526	511.017	539.322
117.5	185.263	228.491	401.918	537.263	567.626
120.0	203.790	247.532	427.649	565.053	595.930
122.5	220.772	263.485	446.175	604.164	625.778
125.0	236.725	278.924	456.468	646.877	668.491
127.5	251.649	293.333	462.643	675.696	715.836
130.0	264.000	305.684	466.246	687.532	749.801
132.5	276.351	317.006	467.275	682.901	760.608

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-WSO-MLW-ITL89456-KPL2008-7.011.IES****CANDELA TABULATION - (Cont.)**

135.0	287.158	326.269	466.760	668.491	749.801
137.5	296.936	335.017	465.216	648.936	727.158
140.0	306.714	342.737	462.643	627.322	698.339
142.5	315.977	349.942	459.041	603.135	667.462
145.0	325.754	356.632	455.439	579.977	636.070
147.5	333.988	361.778	451.322	556.304	604.164
150.0	342.222	367.439	446.175	535.205	574.316
152.5	349.942	371.556	440.000	515.135	546.526
155.0	357.146	374.643	433.825	495.579	520.795
157.5	363.836	378.760	428.164	477.567	497.637
160.0	369.497	381.333	421.474	460.070	476.023
162.5	374.643	383.392	414.784	445.146	455.953
165.0	378.760	385.450	408.094	430.737	438.971
167.5	382.363	386.994	402.947	418.386	424.047
170.0	385.450	388.538	399.345	408.608	412.211
172.5	386.994	389.567	395.228	400.374	403.462
175.0	389.053	390.082	392.655	395.228	396.257
177.5	390.082	390.082	391.111	391.111	391.626
180.0	390.596	390.596	390.596	390.596	390.596

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-WSO-MLW-ITL89456-KPL2008-7.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1561.13	N.A.	32.80
0-30	2122.75	N.A.	44.60
0-40	2321.33	N.A.	48.80
0-60	2568.5	N.A.	54.00
0-80	2681.94	N.A.	56.30
0-90	2693.11	N.A.	56.60
10-90	2131.68	N.A.	44.80
20-40	760.20	N.A.	16.00
20-50	899.24	N.A.	18.90
40-70	320.65	N.A.	6.70
60-80	113.44	N.A.	2.40
70-80	39.97	N.A.	0.80
80-90	11.17	N.A.	0.20
90-110	270.58	N.A.	5.70
90-120	627.57	N.A.	13.20
90-130	1035.65	N.A.	21.80
90-150	1711.39	N.A.	35.90
90-180	2067.64	N.A.	43.40
110-180	1797.06	N.A.	37.70
0-180	4760.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	561.43
10-20	999.70
20-30	561.62
30-40	198.58
40-50	139.04
50-60	108.14
60-70	73.47
70-80	39.97
80-90	11.17
90-100	47.20
100-110	223.38
110-120	356.99
120-130	408.08
130-140	381.40
140-150	294.33
150-160	202.32
160-170	116.27
170-180	37.67

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

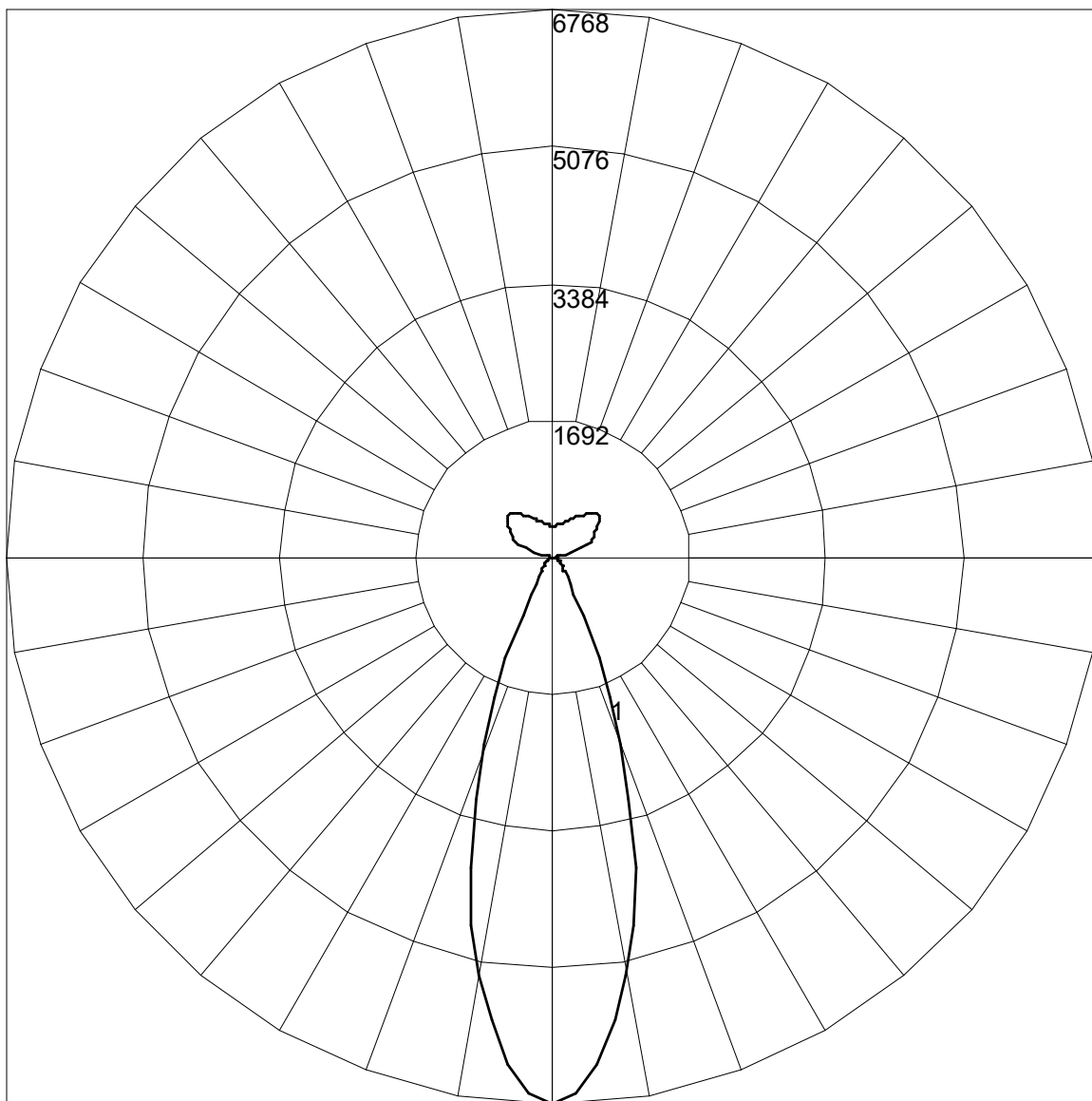
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	102	98	95	93	95	92	89	87	80	78	77	69	68	67	59	58	57	53
2	95	90	85	81	89	84	80	77	74	71	69	64	62	61	56	54	53	49
3	89	82	76	72	84	77	73	69	69	65	62	60	58	56	53	51	50	46
4	84	76	70	65	79	72	66	62	64	60	57	57	54	52	50	48	47	44
5	79	70	64	59	74	67	61	57	60	56	53	54	51	48	48	46	44	41
6	75	65	59	54	70	62	57	53	56	52	49	51	48	45	46	43	42	39
7	71	61	55	51	67	58	53	49	53	49	46	48	45	43	44	41	40	37
8	67	58	51	47	64	55	50	46	50	46	43	46	43	40	42	40	38	36
9	64	54	48	44	61	52	47	43	48	44	41	44	41	38	40	38	36	34
10	61	51	46	42	58	49	44	41	46	42	39	42	39	37	39	36	35	33

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POLAR GRAPH



Maximum Candela = 6767.834 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)