

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-WW-D-K-4FT-V-8-TW-ITL85137.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85137.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE] 08/15/15

[ISSUEDATE]04/14/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-WW-D-K-4ft-V-8-TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 21.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 23.3 WATTS

[OTHER]see www.finelite.com for source file ITL85137. 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

[_ABSOLUTELUMENS]1500

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	21.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.90
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15708	18107	11486
55	9922	14412	10638
65	7069	10062	9553
75	7262	7760	8121
85	8198	8112	6214

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	485	485	485	485	485	485	485	485	485
2.5	568	559	544	516	484	452	427	412	406
5.0	652	640	606	548	483	423	378	351	342
7.5	726	714	665	580	481	394	335	303	293
10.0	788	774	715	608	478	367	300	268	259
12.5	834	820	756	633	474	343	272	243	235
15.0	863	853	790	654	470	320	251	225	219
17.5	882	873	812	671	464	300	234	213	208
20.0	891	883	825	684	458	282	221	203	199
22.5	890	883	830	692	450	266	210	195	192
25.0	882	877	829	695	442	251	201	188	184
27.5	869	864	821	693	433	238	192	181	177
30.0	852	847	807	687	422	225	184	173	169
32.5	826	824	788	676	410	214	177	165	161
35.0	795	794	764	659	397	203	168	157	152
37.5	755	758	736	639	382	192	160	148	142
40.0	706	714	705	616	366	182	151	138	131
42.5	648	663	669	589	350	171	142	126	119
45.0	581	606	629	559	333	161	133	114	105
47.5	520	544	587	527	313	151	122	101	94
50.0	450	481	539	493	293	141	111	89	83
52.5	384	417	489	457	272	131	99	78	72
55.0	326	358	436	420	251	120	86	68	62
57.5	279	306	386	383	231	109	75	57	52
60.0	242	262	336	346	209	98	64	47	42
62.5	216	228	291	310	188	87	54	38	33
65.0	196	204	250	276	167	75	43	28	24
67.5	183	185	215	242	147	64	33	19	15
70.0	174	172	186	209	127	52	24	11	7
72.5	165	161	163	179	107	40	15	3	1
75.0	158	152	145	151	88	30	7	0	0
77.5	151	144	130	127	70	19	1	0	0
80.0	143	136	119	103	54	10	0	0	0
82.5	134	127	108	84	39	2	0	0	0
85.0	124	117	97	67	24	0	0	0	0
87.5	109	103	84	53	12	0	0	0	0
90.0	93	87	68	38	0	0	0	0	0
92.5	77	70	51	21	0	0	0	0	0
95.0	60	54	34	6	0	0	0	0	0
97.5	44	39	19	0	0	0	0	0	0
100.0	29	23	6	0	0	0	0	0	0
102.5	14	9	0	0	0	0	0	0	0
105.0	2	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	192.33	N.A.	12.80
0-30	423.43	N.A.	28.20
0-40	705.25	N.A.	47.00
0-60	1198.82	N.A.	79.90
0-80	1430.53	N.A.	95.40
0-90	1480.51	N.A.	98.70
10-90	1433.22	N.A.	95.60
20-40	512.92	N.A.	34.20
20-50	789.49	N.A.	52.60
40-70	637.79	N.A.	42.50
60-80	231.70	N.A.	15.40
70-80	87.49	N.A.	5.80
80-90	49.98	N.A.	3.30
90-110	19.27	N.A.	1.30
90-120	19.27	N.A.	1.30
90-130	19.27	N.A.	1.30
90-150	19.27	N.A.	1.30
90-180	19.27	N.A.	1.30
110-180	0.00	N.A.	0.00
0-180	1499.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.29
10-20	145.04
20-30	231.11
30-40	281.81
40-50	276.56
50-60	217.01
60-70	144.21
70-80	87.49
80-90	49.98
90-100	17.97
100-110	1.30
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

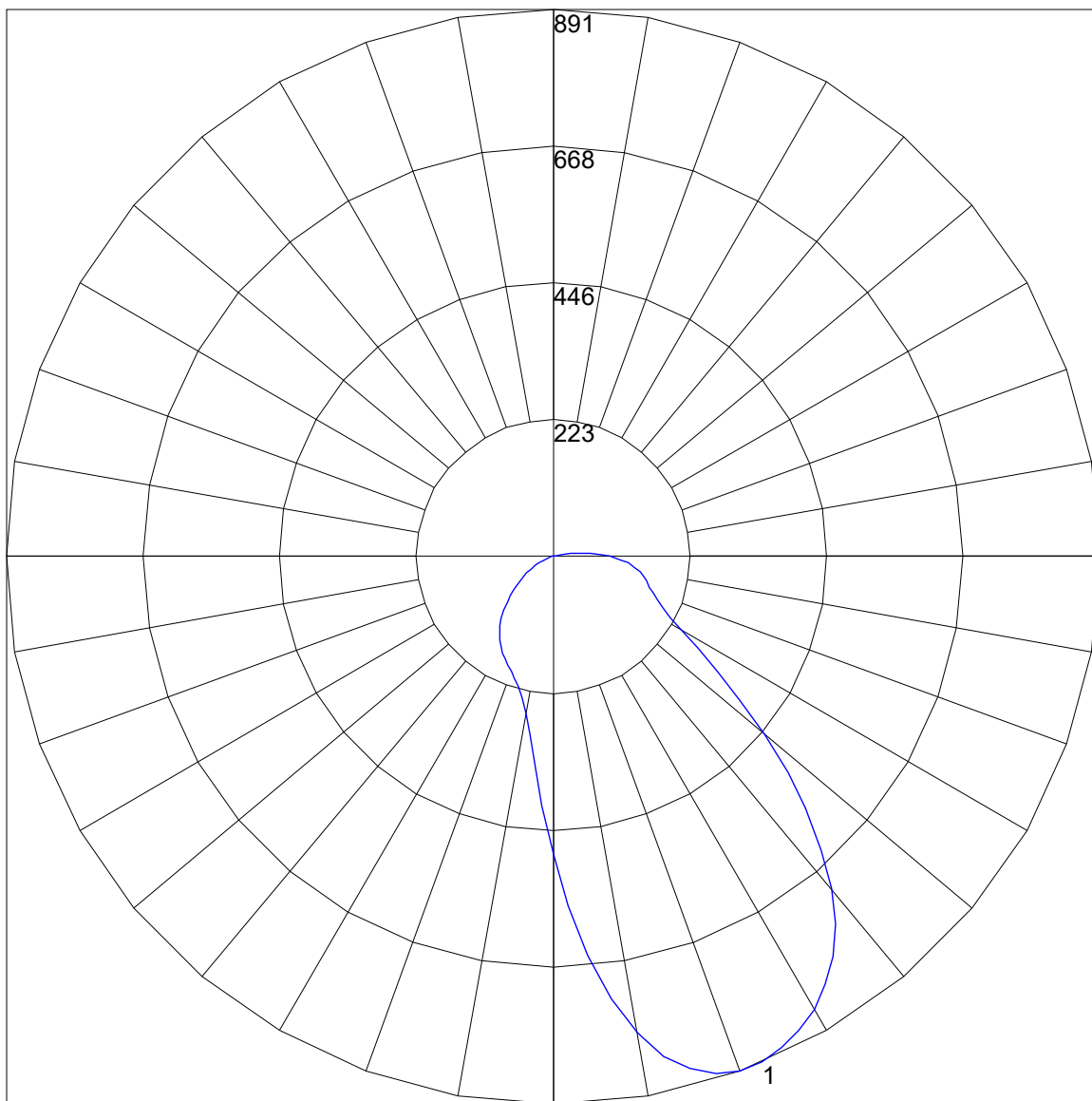
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	103	99	95	105	101	97	94	97	93	90	92	90	87	89	87	85	82
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71	69
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	41	37	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	36	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 891 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)