

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-D-4FT-V-8TW-DL-ITL90630.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/09/18
[ISSUEDATE]10/12/18
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-D-4ft-V-8TW-DL
[OTHER]ies file is based on 3500K; see luminaire tech sheet at
[more]www.finelite.com for lumen adjustment factors for other CCT's & CRI's
[INPUT_ELECTRICAL]120.0 VOLTS, 40.5 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 41.4 WATTS
[ABSOLUTE]LUMENS]3637
[OTHER]see www.finelite.com for source file ITL90630. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	40.5
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.99 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12715	11046	10651
55	11800	10050	9729
65	10677	8956	8776
75	8927	7725	7776
85	6240	6606	6922

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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	969	969	969	969	969
2.5	969	968	969	970	970
5.0	964	965	967	970	971
7.5	957	959	965	970	971
10.0	948	950	961	968	969
12.5	936	939	954	962	965
15.0	921	925	944	955	957
17.5	902	909	931	944	947
20.0	882	891	916	930	932
22.5	860	870	899	914	917
25.0	833	848	880	895	900
27.5	808	824	859	876	880
30.0	780	799	836	855	859
32.5	751	773	813	832	838
35.0	718	745	788	808	814
37.5	687	717	761	784	791
40.0	655	687	735	759	766
42.5	621	657	706	732	740
45.0	586	627	677	705	714
47.5	551	595	648	677	686
50.0	517	562	618	649	659
52.5	480	530	587	621	632
55.0	445	497	556	591	603
57.5	410	464	525	561	573
60.0	374	429	493	531	544
62.5	337	395	461	501	514
65.0	301	362	427	468	483
67.5	266	328	395	438	454
70.0	230	293	362	407	421
72.5	194	259	330	375	391
75.0	159	226	298	344	361
77.5	126	195	266	314	332
80.0	96	164	238	286	302
82.5	67	136	211	259	276
85.0	43	112	187	235	252
87.5	25	92	166	214	230
90.0	11	78	150	198	213
92.5	11	75	145	190	206
95.0	10	73	141	185	199
97.5	10	70	136	179	193
100.0	9	67	132	173	187
102.5	9	65	128	168	181
105.0	9	61	123	162	175
107.5	8	58	119	156	169
110.0	7	56	114	150	163
112.5	7	53	109	144	157
115.0	7	50	105	139	151
117.5	6	47	100	133	144
120.0	6	44	95	127	138
122.5	5	41	90	121	132
125.0	5	38	85	115	125
127.5	4	35	80	108	119
130.0	4	32	75	102	112
132.5	4	29	70	96	105

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CANDELA TABULATION - (Cont.)

135.0	3	26	64	90	99
137.5	3	23	59	83	92
140.0	3	20	53	77	85
142.5	3	17	47	71	79
145.0	2	15	42	65	72
147.5	2	13	37	58	65
150.0	2	11	32	52	58
152.5	1	8	27	45	51
155.0	1	7	22	38	44
157.5	1	5	18	30	37
160.0	1	3	14	24	30
162.5	1	2	11	18	24
165.0	1	2	8	13	18
167.5	1	1	5	9	12
170.0	1	1	2	5	7
172.5	1	1	1	2	3
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	357.46	N.A.	9.80
0-30	759.62	N.A.	20.90
0-40	1246.01	N.A.	34.30
0-60	2244.11	N.A.	61.70
0-80	2951.63	N.A.	81.10
0-90	3140.47	N.A.	86.30
10-90	3048.37	N.A.	83.80
20-40	888.55	N.A.	24.40
20-50	1401.69	N.A.	38.50
40-70	1406.86	N.A.	38.70
60-80	707.52	N.A.	19.50
70-80	298.75	N.A.	8.20
80-90	188.84	N.A.	5.20
90-110	253.23	N.A.	7.00
90-120	345.62	N.A.	9.50
90-130	413.65	N.A.	11.40
90-150	483.72	N.A.	13.30
90-180	496.93	N.A.	13.70
110-180	243.70	N.A.	6.70
0-180	3637.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.10
10-20	265.37
20-30	402.16
30-40	486.39
40-50	513.14
50-60	484.96
60-70	408.77
70-80	298.75
80-90	188.84
90-100	137.26
100-110	115.97
110-120	92.39
120-130	68.03
130-140	44.89
140-150	25.18
150-160	10.60
160-170	2.49
170-180	0.12

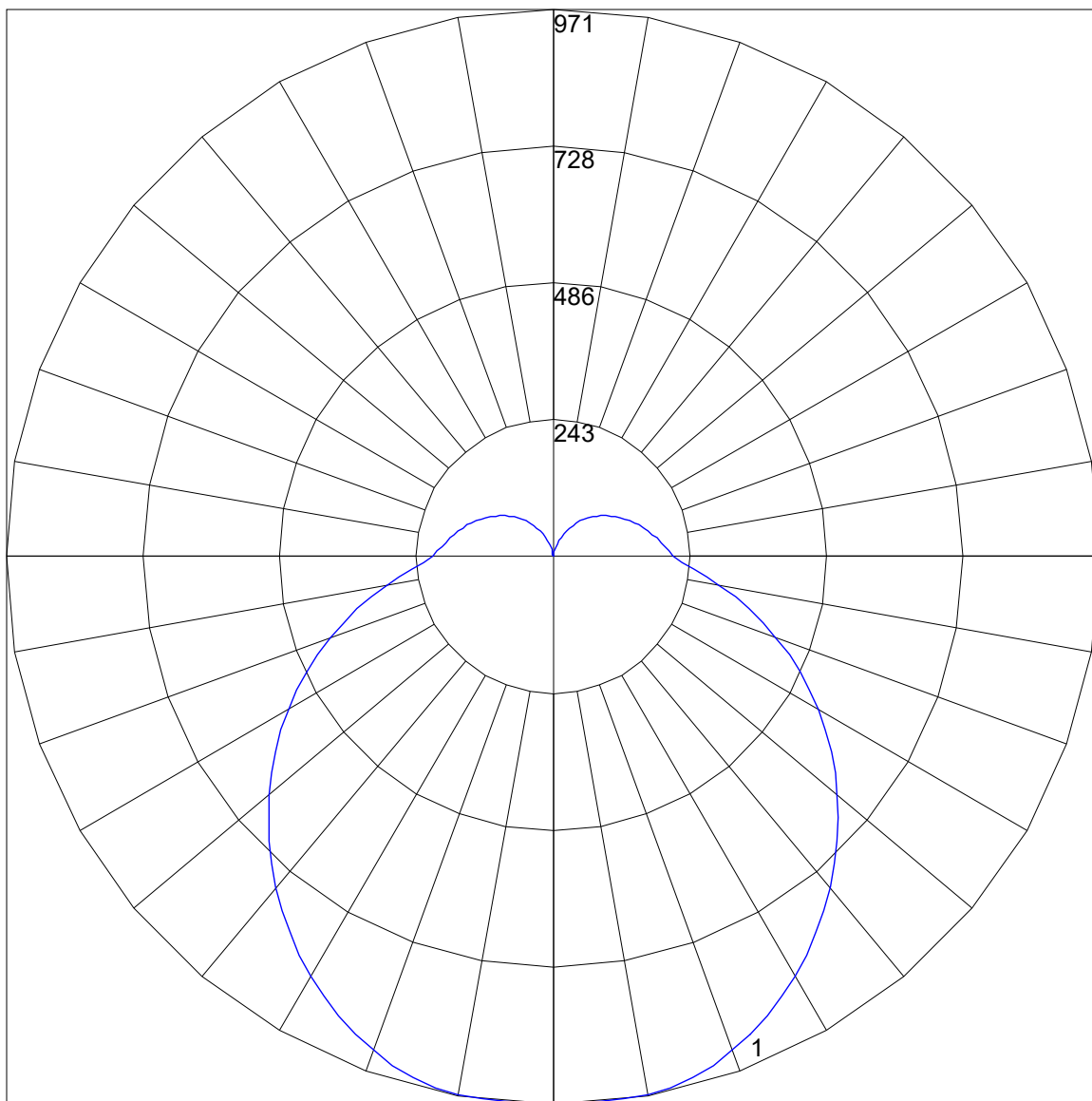
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	86
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	52	45	39	49	43	38	46	40	36	34
6	66	52	43	36	63	50	42	36	47	40	34	44	38	33	41	36	32	29
7	61	47	38	32	58	46	37	31	43	36	30	40	34	29	38	32	28	26
8	57	43	34	28	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	32	27	23	21
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	30	24	20	19

POLAR GRAPH



Maximum Candela = 971 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)