



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-3070-FL-HO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L450 HO NW 30 70
 [TESTLAB] Dekko
 [ISSUE DATE] 6/29/2017
 [TEST DATE] 04-05-2017
 [LUMCAT] CURV-8-LED-3070-FL-HO-40
 [MANUFAC] LSI INDUSTRIES, INC.
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8775
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	97
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.60
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.56
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4200	3713	3004
55	4200	3739	2909
65	3986	3632	2723
75	3712	3456	2458
85	4360	4164	3064

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716
10	1748	1748	1738	1728	1720	1706	1698	1692	1686	1686
20	1820	1812	1790	1762	1728	1694	1662	1634	1616	1614
30	1860	1846	1818	1770	1714	1650	1588	1536	1494	1482
40	1780	1770	1734	1684	1614	1536	1448	1376	1326	1302
50	1534	1524	1500	1458	1396	1314	1234	1158	1096	1068
60	1154	1150	1136	1108	1068	1008	944	878	824	794
70	726	728	722	716	692	658	604	566	528	490
80	346	350	350	344	332	314	292	266	242	220
90	78	80	80	82	82	82	80	78	78	78
100	230	234	248	252	234	196	174	156	140	132
110	444	468	436	428	420	388	362	316	264	254
120	622	590	562	536	518	478	440	398	358	346
130	696	508	640	590	556	522	500	460	432	422
140	700	548	638	604	542	584	546	510	492	488
150	678	642	512	632	644	558	530	534	536	538
160	646	664	574	522	548	590	602	594	580	574
170	608	626	620	594	562	540	530	526	526	528
180	614	614	614	614	614	614	614	614	614	614

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	649.54	N.A.	7.40
0-30	1433.89	N.A.	16.30
0-40	2450.04	N.A.	27.90
0-60	4619.34	N.A.	52.60
0-80	5946.82	N.A.	67.80
0-90	6158.55	N.A.	70.20
10-90	5994.8	N.A.	68.30
20-40	1800.5	N.A.	20.50
20-50	2919.57	N.A.	33.30
40-70	2991.63	N.A.	34.10
60-80	1327.48	N.A.	15.10
70-80	505.15	N.A.	5.80
80-90	211.73	N.A.	2.40
90-110	461.98	N.A.	5.30
90-120	891.84	N.A.	10.20
90-130	1346.95	N.A.	15.30
90-150	2127.53	N.A.	24.20
90-180	2616.73	N.A.	29.80
110-180	2154.75	N.A.	24.60
0-180	8775.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.74
10-20	485.80
20-30	784.35
30-40	1016.15
40-50	1119.07
50-60	1050.23
60-70	822.33
70-80	505.15
80-90	211.73
90-100	153.66
100-110	308.32
110-120	429.86
120-130	455.11
130-140	422.72
140-150	357.86
150-160	269.49
160-170	163.40
170-180	56.31

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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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	101	97	92	88	96	91	87	84	82	79	76	73	70	68	65	63	61	57
2	92	84	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	47
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	33
5	70	57	48	42	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	36	60	48	40	35	44	37	32	39	34	29	35	30	27	24
7	59	46	37	31	56	44	36	30	39	33	28	35	30	26	32	27	24	21
8	55	42	33	28	52	40	32	27	36	29	25	32	27	23	29	24	21	19
9	51	38	30	25	48	36	29	24	33	26	22	30	24	20	27	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	15.5	16.6	16.3	17.4	18.4	UGR Viewed Endwise			
	3H	17.4	18.4	18.2	19.2	20.2	13.7	14.8	14.4	15.6
	4H	18.1	19.1	18.9	19.9	20.9	15.4	16.4	16.2	17.2
	6H	18.7	19.6	19.5	20.4	21.4	16.1	17.0	16.8	17.8
	8H	19.0	19.8	19.8	20.7	21.7	16.5	17.4	17.3	18.3
	12H	19.2	20.0	20.0	20.8	21.9	16.8	17.6	17.6	18.4
							17.0	17.8	17.8	18.6

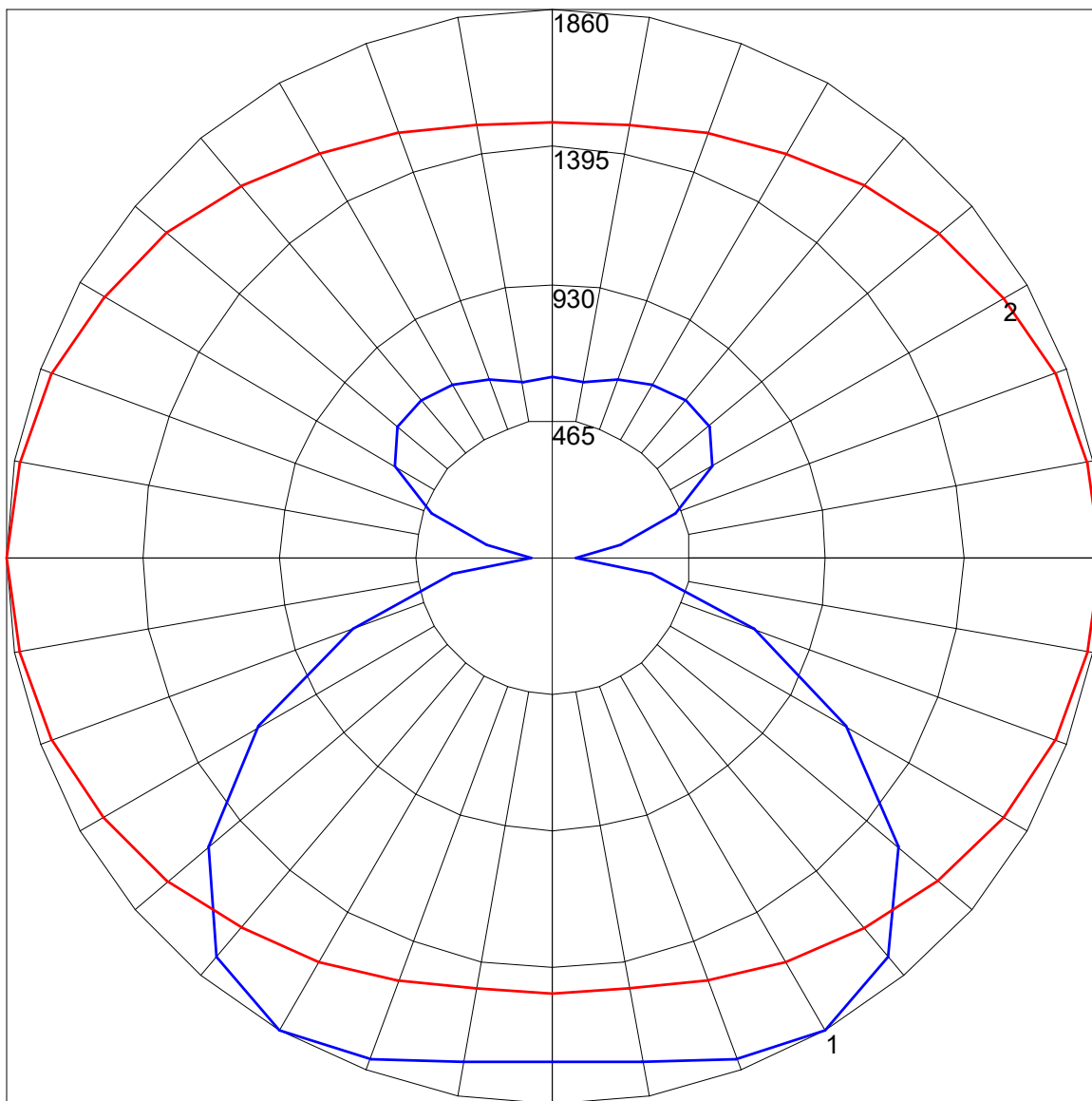
4H	2H	16.0	17.0	16.8	17.8	18.8	14.6	15.5	15.4	16.3
	3H	18.1	18.9	18.9	19.8	20.8	14.4	15.4	15.4	16.3
	4H	19.0	19.8	19.9	20.6	21.7	16.5	17.3	17.3	18.2
	6H	19.8	20.4	20.6	21.3	22.3	17.3	18.1	18.1	18.9
	8H	20.1	20.7	21.0	21.6	22.6	17.9	18.6	18.8	19.5
	12H	20.4	21.0	21.3	21.8	22.9	18.2	18.8	19.1	19.7
							18.5	19.0	19.3	19.9

8H	4H	19.3	19.9	20.2	20.8	21.8	17.8	18.4	18.7	19.3
	6H	20.2	20.7	21.1	21.6	22.7	18.6	19.1	19.5	20.0
	8H	20.7	21.1	21.5	22.0	23.1	19.0	19.5	19.9	20.4
	12H	21.1	21.5	22.0	22.4	23.5	19.4	19.8	20.3	20.7

12H	4H	19.3	19.9	20.2	20.7	21.8	17.9	18.5	18.8	19.3
	6H	20.3	20.8	21.2	21.6	22.7	18.8	19.2	19.7	20.1
	8H	20.8	21.2	21.7	22.1	23.2	19.3	19.6	20.1	20.5

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1860 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)