



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-3070-FB-VHO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L445 VHO NW 30 70
 [TESTLAB] Dekko
 [TESTDATE] 03-31-2017
 [ISSUE DATE] 9/2/2020
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CURV-4-LED-3070-FB-VHO-40
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	71.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	3074	2653	2459
55	2352	1677	1297
65	1281	653	371
75	305	118	75
85	0	33	0

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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	1136.451	1136.451	1136.451	1136.451	1136.451	1136.451	1136.451	1136.451	1136.451	1136.451
10	1112.684	1108.609	1107.380	1107.101	1104.197	1101.008	1097.859	1094.627	1093.292	1091.350
20	1034.040	1032.603	1027.187	1019.100	1009.300	994.451	987.219	981.570	979.083	978.011
30	900.427	899.058	885.217	865.878	851.644	845.218	841.257	839.689	836.031	836.589
40	718.173	712.515	687.194	664.337	651.804	644.262	640.064	636.072	633.365	631.921
50	494.634	484.195	453.204	428.765	408.475	388.760	363.899	350.096	341.384	338.347
60	257.970	248.533	216.172	187.185	155.170	120.714	97.843	85.630	78.924	76.701
70	43.998	43.101	36.121	21.103	16.765	15.194	13.490	12.035	11.276	10.860
80	0.000	0.373	0.836	1.086	1.264	0.934	0.534	0.176	0.000	0.000
90	0.000	0.330	0.618	0.792	0.704	0.294	0.000	0.000	0.000	0.000
100	54.556	44.650	41.467	60.630	48.479	50.289	45.244	37.972	29.519	25.481
110	146.973	138.438	123.170	115.740	114.787	124.298	113.119	106.724	92.472	89.451
120	202.616	198.331	187.176	174.894	161.840	155.551	149.829	141.535	133.275	134.316
130	227.643	226.904	224.160	214.285	206.206	199.781	185.328	176.218	173.742	173.793
140	243.188	246.959	246.253	240.552	230.082	214.694	210.351	208.984	208.788	208.926
150	240.238	240.105	237.717	237.485	233.091	232.876	233.044	232.817	233.329	233.540
160	240.655	241.289	246.582	247.644	247.740	247.998	248.290	249.015	249.704	250.272
170	250.787	250.700	252.212	255.079	258.072	258.709	259.455	259.057	258.880	258.448
180	255.156	255.156	255.156	255.156	255.156	255.156	255.156	255.156	255.156	255.156

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	405.30	N.A.	13.50
0-30	836.51	N.A.	27.90
0-40	1313.84	N.A.	43.80
0-60	1974.86	N.A.	65.80
0-80	2072.42	N.A.	69.00
0-90	2072.9	N.A.	69.10
10-90	1966.07	N.A.	65.50
20-40	908.54	N.A.	30.30
20-50	1320.72	N.A.	44.00
40-70	746.72	N.A.	24.90
60-80	97.55	N.A.	3.20
70-80	11.86	N.A.	0.40
80-90	0.48	N.A.	0.00
90-110	109.25	N.A.	3.60
90-120	248.10	N.A.	8.30
90-130	411.49	N.A.	13.70
90-150	721.55	N.A.	24.00
90-180	928.93	N.A.	30.90
110-180	819.69	N.A.	27.30
0-180	3001.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.83
10-20	298.47
20-30	431.21
30-40	477.33
40-50	412.17
50-60	248.85
60-70	85.70
70-80	11.86
80-90	0.48
90-100	24.31
100-110	84.94
110-120	138.85
120-130	163.39
130-140	165.22
140-150	144.84
150-160	111.63
160-170	71.35
170-180	24.41

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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	105	105	105	105	94	94	94	83	83	83	74	74	74	69
1	104	100	97	94	98	95	92	90	85	83	81	76	75	73	68	67	66	62
2	96	90	84	80	91	85	80	76	77	73	70	69	66	64	62	60	58	55
3	89	80	74	68	84	76	71	66	69	65	61	63	59	56	56	54	52	48
4	82	72	65	59	78	69	62	57	63	58	53	57	53	50	52	48	46	43
5	76	65	58	52	72	62	56	50	57	51	47	52	47	44	47	44	41	38
6	70	59	52	46	67	57	50	45	52	46	42	47	43	39	43	40	37	34
7	66	54	46	41	62	52	45	40	47	42	38	44	39	35	40	36	33	31
8	61	49	42	37	58	47	41	36	44	38	34	40	35	32	37	33	30	28
9	57	45	38	33	54	44	37	32	40	35	31	37	32	29	34	30	27	25
10	54	42	35	30	51	40	34	30	37	32	28	34	30	27	32	28	25	23

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UGR TABLE - CORRECTED

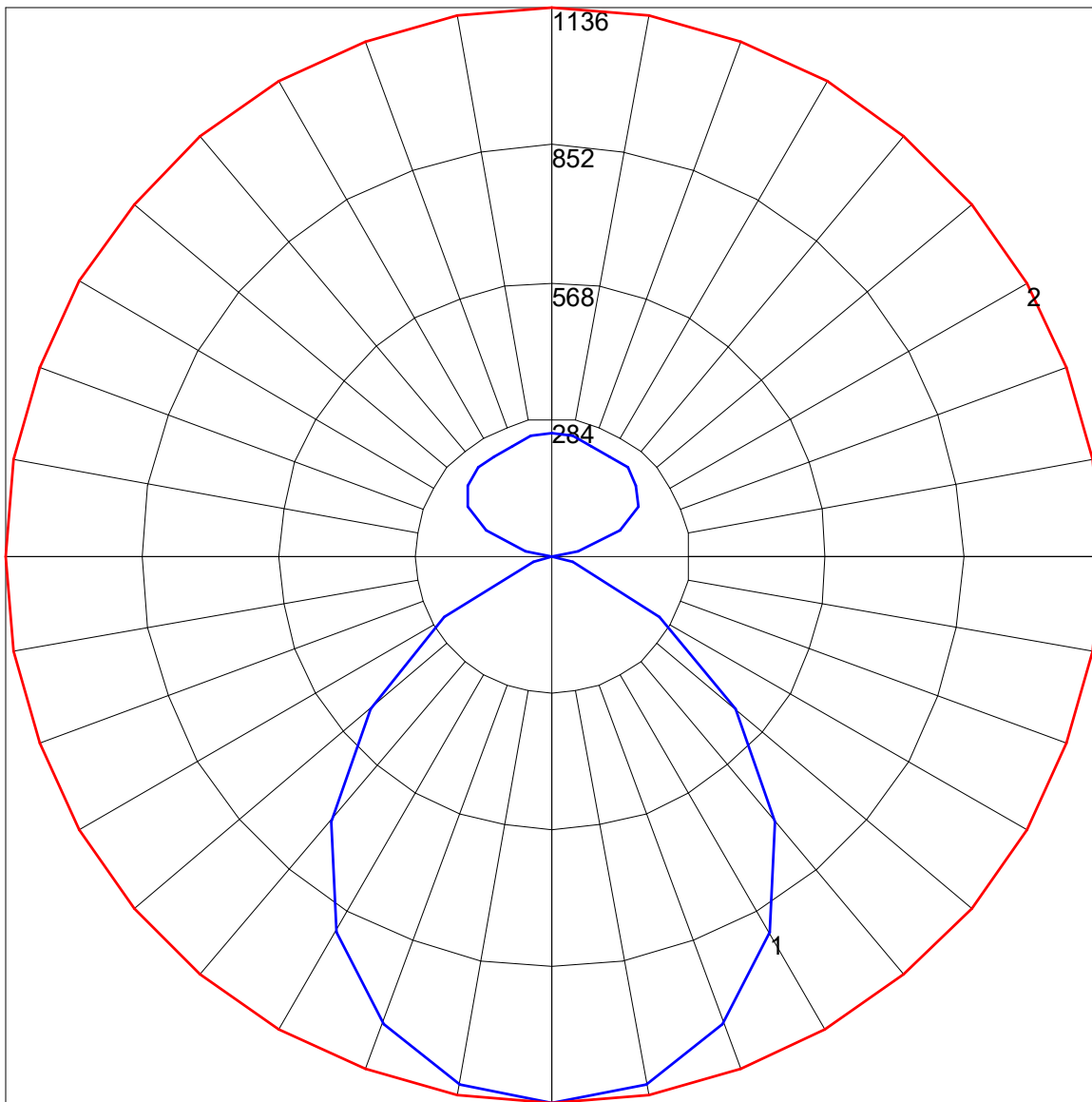
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	11.6	12.5	12.4	13.3	14.3	7.1	8.1	7.9	8.9	9.8
	3H	11.8	12.6	12.6	13.4	14.5	7.1	7.9	7.9	8.7	9.7
	4H	11.8	12.5	12.6	13.4	14.4	7.0	7.8	7.8	8.6	9.6
	6H	11.7	12.4	12.5	13.2	14.3	6.9	7.6	7.8	8.5	9.5
	8H	11.6	12.3	12.5	13.2	14.2	6.9	7.5	7.7	8.4	9.4
	12H	11.6	12.2	12.4	13.1	14.1	6.8	7.4	7.7	8.3	9.3
4H	2H	11.4	12.2	12.3	13.0	14.0	7.3	8.1	8.1	8.9	9.9
	3H	11.7	12.3	12.5	13.2	14.2	7.3	7.9	8.1	8.8	9.8
	4H	11.6	12.2	12.5	13.1	14.1	7.2	7.8	8.1	8.6	9.7
	6H	11.6	12.1	12.4	12.9	14.0	7.1	7.6	8.0	8.5	9.6
	8H	11.5	12.0	12.4	12.8	13.9	7.1	7.5	7.9	8.4	9.5
	12H	11.5	11.8	12.3	12.7	13.8	7.0	7.4	7.9	8.3	9.4
8H	4H	11.5	12.0	12.4	12.8	13.9	7.1	7.5	8.0	8.4	9.5
	6H	11.4	11.8	12.3	12.7	13.8	7.0	7.3	7.9	8.3	9.3
	8H	11.3	11.7	12.3	12.6	13.7	6.9	7.2	7.8	8.2	9.3
	12H	11.3	11.6	12.2	12.5	13.6	6.9	7.1	7.8	8.0	9.2
12H	4H	11.4	11.8	12.3	12.7	13.8	7.0	7.4	7.9	8.3	9.4
	6H	11.3	11.7	12.3	12.6	13.7	6.9	7.2	7.8	8.1	9.3
	8H	11.3	11.6	12.2	12.5	13.6	6.9	7.2	7.8	8.0	9.2

Maximum UGR = 14.5

POLAR GRAPH



Maximum Candela = 1136.451 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)