



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-2080-FB-SS-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L445 HO SS 20 80
 [TESTLAB] Dekko
 [TESTDATE] 04-10-2017
 [ISSUE DATE] 9/2/2020
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CURV-4-LED-2080-FB-SS-30
 [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	1825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	40.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
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	1900	1701	1656
55	1559	1211	1043
65	1061	639	470
75	558	335	301
85	652	712	704

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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	655.660	655.660	655.660	655.660	655.660	655.660	655.660	655.660	655.660	655.660
10	648.303	646.855	645.537	644.791	644.184	641.937	640.591	639.222	638.700	638.436
20	606.635	606.072	605.144	602.354	598.630	593.912	590.399	586.414	584.455	584.036
30	534.781	534.007	529.236	519.995	514.822	509.781	509.894	508.132	506.846	506.878
40	435.814	432.541	421.287	410.437	404.634	402.261	402.498	404.741	404.070	403.656
50	313.625	308.753	294.209	281.584	271.140	263.901	256.700	252.391	250.710	249.600
60	185.417	178.364	159.505	144.437	128.698	111.469	96.551	88.060	85.625	84.314
70	64.751	60.817	51.851	39.754	31.922	29.345	27.662	26.865	26.442	26.451
80	15.836	16.605	16.799	17.326	17.648	17.709	17.642	17.329	17.180	17.062
90	15.863	16.508	16.894	17.063	17.028	16.897	16.858	16.816	17.039	17.188
100	43.961	37.983	33.644	33.112	33.133	33.810	32.583	31.266	29.581	29.357
110	82.734	78.016	67.392	57.791	55.788	50.781	47.541	44.550	42.922	42.236
120	103.858	102.431	93.309	84.732	73.279	67.112	63.672	62.127	58.928	58.419
130	114.304	114.678	107.566	101.307	95.376	91.178	86.412	80.701	75.016	75.173
140	120.164	121.539	120.043	114.524	109.961	106.924	104.255	96.632	95.199	95.605
150	125.062	126.054	125.856	125.535	119.952	115.740	108.527	106.370	106.367	106.737
160	121.093	122.614	121.964	120.177	117.912	116.288	115.397	115.464	115.496	115.673
170	116.105	116.918	117.423	118.399	118.763	119.218	119.806	120.038	120.224	120.130
180	118.975	118.975	118.975	118.975	118.975	118.975	118.975	118.975	118.975	118.975

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	237.53	N.A.	13.00
0-30	495.10	N.A.	27.10
0-40	786.71	N.A.	43.10
0-60	1230.74	N.A.	67.40
0-80	1340.78	N.A.	73.50
0-90	1359.35	N.A.	74.50
10-90	1297.37	N.A.	71.10
20-40	549.18	N.A.	30.10
20-50	814.35	N.A.	44.60
40-70	524.98	N.A.	28.80
60-80	110.03	N.A.	6.00
70-80	29.09	N.A.	1.60
80-90	18.57	N.A.	1.00
90-110	75.03	N.A.	4.10
90-120	140.88	N.A.	7.70
90-130	217.32	N.A.	11.90
90-150	366.54	N.A.	20.10
90-180	465.84	N.A.	25.50
110-180	390.80	N.A.	21.40
0-180	1825.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.97
10-20	175.56
20-30	257.57
30-40	291.62
40-50	265.17
50-60	178.86
60-70	80.94
70-80	29.09
80-90	18.57
90-100	27.48
100-110	47.55
110-120	65.84
120-130	76.44
130-140	78.47
140-150	70.75
150-160	54.36
160-170	33.58
170-180	11.35

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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	105	101	97	94	99	96	93	90	87	85	82	79	77	75	71	70	69	65
2	96	89	84	79	91	85	80	76	78	74	70	71	68	65	64	62	60	57
3	89	80	73	67	84	76	70	65	70	65	61	64	60	57	58	55	53	50
4	82	71	64	58	78	68	62	56	63	57	53	58	53	50	53	49	46	44
5	76	64	56	51	72	62	55	49	57	51	46	52	48	44	48	44	41	38
6	70	58	50	45	67	56	49	43	52	46	41	48	43	39	44	40	37	34
7	65	53	45	40	62	51	44	39	47	41	37	44	39	35	40	36	33	31
8	61	48	41	36	58	47	40	35	43	37	33	40	35	31	37	33	30	28
9	57	45	37	32	54	43	36	31	40	34	30	37	32	29	35	30	27	25
10	53	41	34	29	51	40	33	29	37	31	27	35	30	26	32	28	25	23

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UGR TABLE - CORRECTED

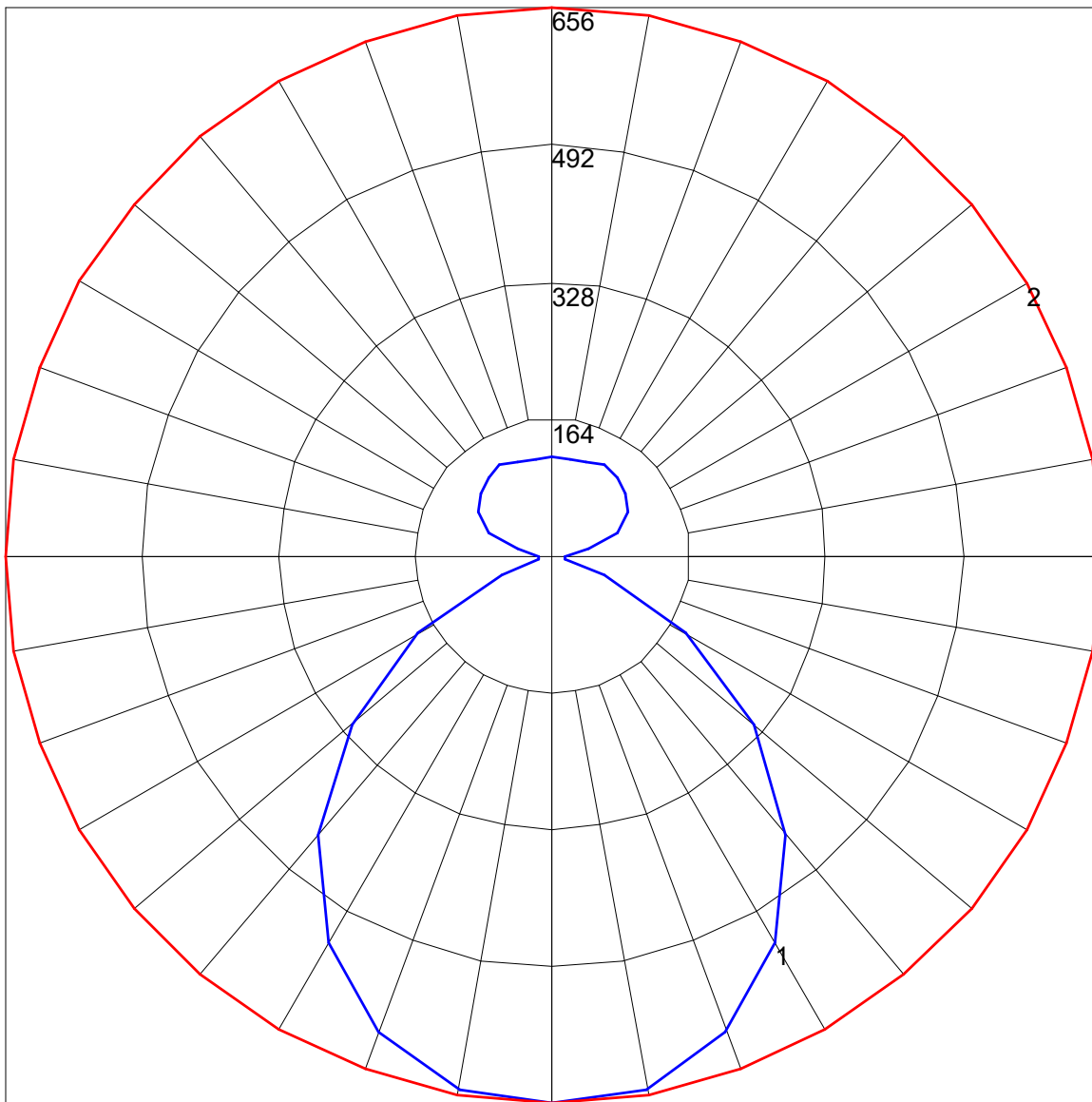
Reflectances

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	11.0	12.0	11.7	12.7	13.6	8.0	9.0	8.7	9.8	10.6
	3H	11.7	12.6	12.5	13.4	14.3	8.3	9.2	9.0	10.0	10.9
	4H	11.9	12.8	12.7	13.5	14.4	8.4	9.3	9.2	10.0	11.0
	6H	12.0	12.8	12.7	13.5	14.5	8.6	9.4	9.4	10.2	11.1
	8H	12.0	12.8	12.8	13.5	14.5	8.7	9.5	9.5	10.3	11.2
	12H	12.0	12.8	12.8	13.5	14.5	9.0	9.7	9.8	10.5	11.4
4H	2H	11.0	11.8	11.7	12.6	13.5	8.3	9.2	9.1	9.9	10.8
	3H	11.8	12.5	12.5	13.3	14.2	8.7	9.4	9.4	10.2	11.1
	4H	12.0	12.7	12.8	13.5	14.4	8.9	9.5	9.7	10.3	11.3
	6H	12.2	12.7	13.0	13.5	14.5	9.2	9.7	10.0	10.5	11.5
	8H	12.2	12.7	13.0	13.6	14.5	9.4	9.9	10.2	10.7	11.7
	12H	12.3	12.8	13.2	13.6	14.6	9.8	10.2	10.6	11.1	12.1
8H	4H	12.0	12.5	12.8	13.3	14.3	9.0	9.5	9.8	10.3	11.3
	6H	12.1	12.6	13.0	13.4	14.4	9.4	9.8	10.2	10.7	11.6
	8H	12.3	12.7	13.1	13.5	14.5	9.7	10.1	10.6	11.0	12.0
	12H	12.5	12.9	13.4	13.7	14.8	10.3	10.7	11.2	11.5	12.6
12H	4H	11.9	12.4	12.7	13.2	14.2	8.9	9.4	9.8	10.2	11.2
	6H	12.1	12.5	13.0	13.4	14.4	9.4	9.8	10.3	10.6	11.7
	8H	12.3	12.7	13.2	13.5	14.5	9.9	10.2	10.7	11.1	12.1

Maximum UGR = 14.8

POLAR GRAPH



Maximum Candela = 655.66 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.)