



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L445 HO NW 20 80
 [TESTLAB] Dekko
 [TESTDATE] 04-10-2017
 [ISSUEDATE] 9/2/2020
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CURV-4-LED-2080-FB-HO-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	2191
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	48.4
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	2280	2042	1988
55	1872	1454	1253
65	1274	767	564
75	670	402	362
85	783	855	846

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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	787.107	787.107	787.107	787.107	787.107	787.107	787.107	787.107	787.107	787.107
10	778.275	776.536	774.954	774.059	773.330	770.633	769.017	767.373	766.747	766.430
20	728.253	727.578	726.463	723.114	718.644	712.979	708.762	703.978	701.627	701.123
30	641.994	641.065	635.337	624.244	618.034	611.982	612.118	610.003	608.458	608.497
40	523.186	519.257	505.746	492.721	485.755	482.906	483.191	485.884	485.078	484.581
50	376.501	370.652	353.192	338.036	325.498	316.808	308.163	302.991	300.972	299.639
60	222.589	214.123	191.482	173.394	154.499	133.816	115.908	105.714	102.791	101.217
70	77.732	73.009	62.247	47.724	38.322	35.228	33.208	32.250	31.743	31.754
80	19.010	19.933	20.167	20.799	21.187	21.260	21.179	20.803	20.624	20.483
90	19.043	19.817	20.280	20.484	20.442	20.284	20.238	20.187	20.455	20.634
100	52.775	45.598	40.388	39.751	39.776	40.588	39.116	37.534	35.511	35.243
110	99.321	93.656	80.903	69.377	66.972	60.962	57.072	53.481	51.527	50.704
120	124.680	122.966	112.016	101.720	87.970	80.567	76.437	74.582	70.742	70.131
130	137.220	137.668	129.131	121.617	114.497	109.457	103.736	96.879	90.056	90.243
140	144.254	145.905	144.110	137.484	132.006	128.360	125.156	116.005	114.284	114.772
150	150.134	151.326	151.087	150.702	144.000	138.943	130.284	127.696	127.691	128.135
160	145.369	147.196	146.415	144.270	141.551	139.602	138.531	138.612	138.650	138.863
170	139.382	140.358	140.964	142.136	142.573	143.119	143.824	144.103	144.326	144.214
180	142.827	142.827	142.827	142.827	142.827	142.827	142.827	142.827	142.827	142.827

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	285.15	N.A.	13.00
0-30	594.35	N.A.	27.10
0-40	944.43	N.A.	43.10
0-60	1477.48	N.A.	67.40
0-80	1609.58	N.A.	73.50
0-90	1631.87	N.A.	74.50
10-90	1557.47	N.A.	71.10
20-40	659.28	N.A.	30.10
20-50	977.61	N.A.	44.60
40-70	630.22	N.A.	28.80
60-80	132.09	N.A.	6.00
70-80	34.92	N.A.	1.60
80-90	22.29	N.A.	1.00
90-110	90.07	N.A.	4.10
90-120	169.12	N.A.	7.70
90-130	260.89	N.A.	11.90
90-150	440.03	N.A.	20.10
90-180	559.23	N.A.	25.50
110-180	469.15	N.A.	21.40
0-180	2191.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.40
10-20	210.75
20-30	309.20
30-40	350.08
40-50	318.33
50-60	214.72
60-70	97.17
70-80	34.92
80-90	22.29
90-100	32.99
100-110	57.08
110-120	79.04
120-130	91.77
130-140	94.21
140-150	84.94
150-160	65.26
160-170	40.32
170-180	13.62

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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	104	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

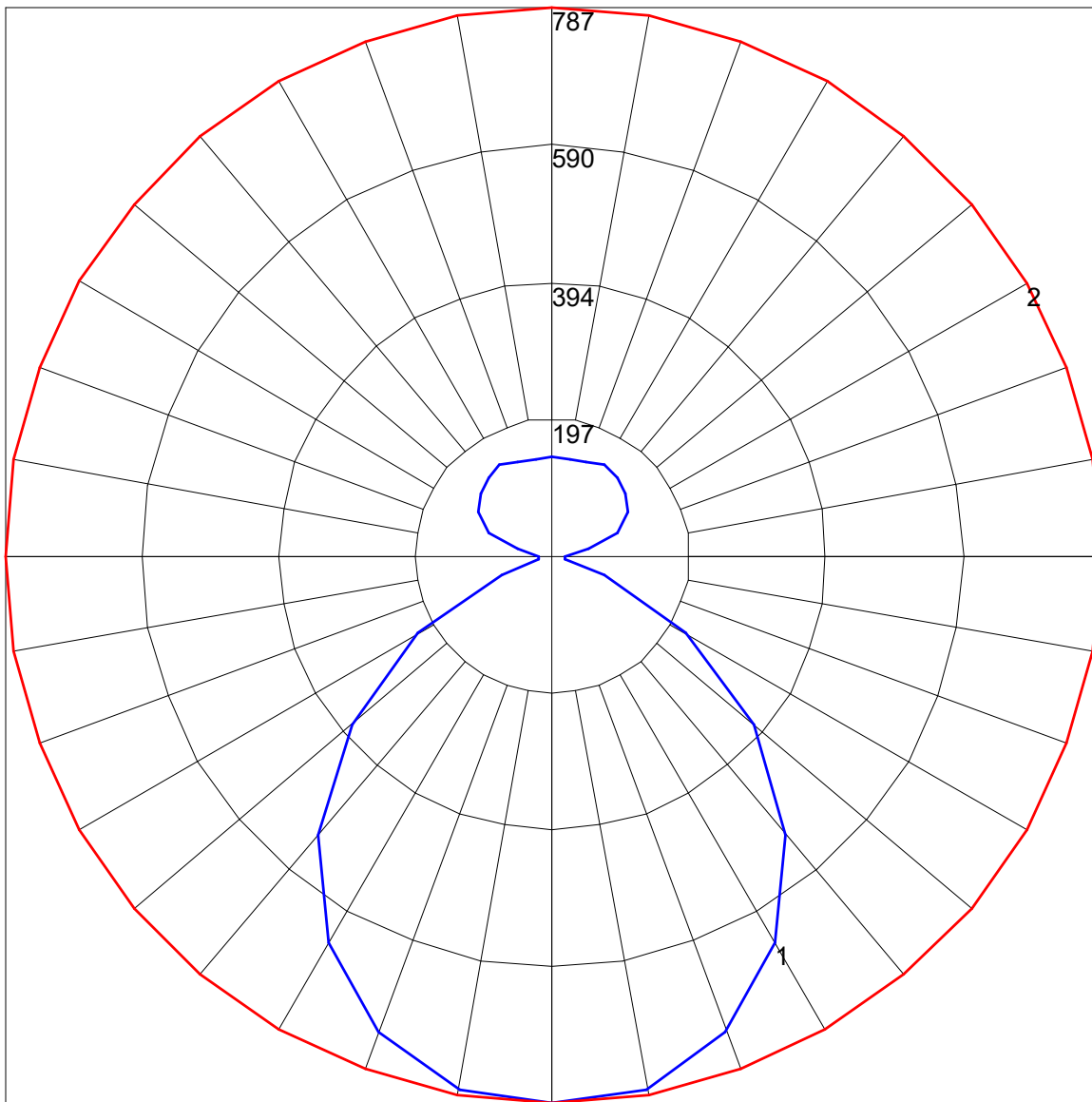
X=2H	Y=2H	11.6	12.6	12.3	13.3	14.2	8.6	9.6	9.3	10.3	11.2
	3H	12.3	13.2	13.1	14.0	14.9	8.9	9.8	9.6	10.6	11.5
	4H	12.5	13.4	13.3	14.1	15.0	9.0	9.9	9.8	10.6	11.6
	6H	12.6	13.4	13.3	14.1	15.1	9.2	10.0	10.0	10.8	11.7
	8H	12.6	13.3	13.4	14.1	15.1	9.3	10.1	10.1	10.9	11.8
	12H	12.6	13.4	13.4	14.1	15.1	9.6	10.3	10.4	11.1	12.0

UGR Viewed Endwise

4H	2H	11.6	12.4	12.3	13.2	14.1	8.9	9.8	9.7	10.5	11.4
	3H	12.3	13.1	13.1	13.9	14.8	9.3	10.0	10.0	10.8	11.7
	4H	12.6	13.3	13.4	14.1	15.0	9.5	10.1	10.3	10.9	11.9
	6H	12.8	13.3	13.6	14.1	15.1	9.8	10.3	10.6	11.1	12.1
	8H	12.8	13.3	13.6	14.2	15.1	10.0	10.5	10.8	11.3	12.3
	12H	12.9	13.4	13.8	14.2	15.2	10.4	10.8	11.2	11.7	12.7
8H	4H	12.6	13.1	13.4	13.9	14.9	9.6	10.1	10.4	10.9	11.9
	6H	12.7	13.2	13.6	14.0	15.0	10.0	10.4	10.8	11.3	12.2
	8H	12.9	13.3	13.7	14.1	15.1	10.3	10.7	11.2	11.6	12.6
	12H	13.1	13.5	14.0	14.3	15.4	10.9	11.3	11.8	12.1	13.2
12H	4H	12.5	13.0	13.3	13.8	14.8	9.5	10.0	10.4	10.8	11.8
	6H	12.7	13.1	13.6	14.0	15.0	10.0	10.4	10.9	11.2	12.3
	8H	12.9	13.3	13.8	14.1	15.1	10.5	10.8	11.3	11.7	12.7

Maximum UGR = 15.4

POLAR GRAPH



Maximum Candela = 787.107 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.)