



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-5050-FB-SS-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L445 HO SS 50 50  
 [TESTLAB] Dekko  
 [TESTDATE] 03-31-2017  
 [ISSUE DATE] 9/2/2020  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] CURV-8-LED-5050-FB-SS-35  
 [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	4173
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	81.2
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	1637	1409	1236
55	1338	966	661
65	896	445	205
75	394	128	70
85	97	147	100

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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>
<b>0</b>	1128.025	1128.025	1128.025	1128.025	1128.025	1128.025	1128.025	1128.025	1128.025	1128.025
<b>10</b>	1112.264	1111.621	1110.225	1106.588	1103.959	1100.033	1094.762	1089.853	1085.492	1081.713
<b>20</b>	1042.842	1042.094	1039.580	1031.233	1019.761	1006.136	995.865	987.954	980.656	975.224
<b>30</b>	919.169	916.771	905.132	885.864	871.916	863.957	855.116	846.793	836.900	830.922
<b>40</b>	749.794	744.941	720.523	695.794	679.672	669.156	662.422	655.593	642.915	632.576
<b>50</b>	541.746	532.641	501.403	473.434	449.237	426.061	399.956	378.637	358.328	342.680
<b>60</b>	314.484	305.385	273.102	236.993	201.209	160.044	123.788	102.331	89.835	80.427
<b>70</b>	108.240	98.723	77.411	50.419	31.874	26.321	22.334	19.403	16.987	16.147
<b>80</b>	5.437	6.491	7.504	7.854	7.947	7.764	7.254	6.309	4.740	4.029
<b>90</b>	3.952	4.511	5.571	6.670	6.402	6.475	6.091	5.468	5.039	5.680
<b>100</b>	125.961	130.858	126.265	127.350	102.147	91.364	78.117	74.067	67.426	65.126
<b>110</b>	318.688	327.471	324.154	315.544	285.575	261.206	242.879	220.729	195.720	189.664
<b>120</b>	395.134	460.379	450.179	418.946	404.096	374.163	330.733	299.329	290.685	291.937
<b>130</b>	445.836	573.867	432.920	518.229	429.460	408.146	374.393	367.985	367.545	368.858
<b>140</b>	460.192	485.248	498.847	438.451	437.977	430.950	431.891	431.627	432.062	432.207
<b>150</b>	447.803	450.577	458.524	462.998	469.466	474.071	476.795	477.520	477.478	480.154
<b>160</b>	479.856	480.128	485.904	491.755	495.285	498.386	500.636	502.507	503.256	505.352
<b>170</b>	499.786	498.379	500.089	503.585	505.453	507.064	507.917	509.921	510.156	513.797
<b>180</b>	504.123	504.123	504.123	504.123	504.123	504.123	504.123	504.123	504.123	504.123

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	405.74	N.A.	9.70
0-30	842.11	N.A.	20.20
0-40	1331.4	N.A.	31.90
0-60	2048.7	N.A.	49.10
0-80	2191.67	N.A.	52.50
0-90	2198.44	N.A.	52.70
10-90	2092.1	N.A.	50.10
20-40	925.66	N.A.	22.20
20-50	1361.25	N.A.	32.60
40-70	832.87	N.A.	20.00
60-80	142.98	N.A.	3.40
70-80	27.40	N.A.	0.70
80-90	6.77	N.A.	0.20
90-110	252.39	N.A.	6.00
90-120	572.21	N.A.	13.70
90-130	933.66	N.A.	22.40
90-150	1561.86	N.A.	37.40
90-180	1974.51	N.A.	47.30
110-180	1722.12	N.A.	41.30
0-180	4172.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	106.34
10-20	299.40
20-30	436.37
30-40	489.29
40-50	435.59
50-60	281.71
60-70	115.57
70-80	27.40
80-90	6.77
90-100	57.23
100-110	195.16
110-120	319.82
120-130	361.45
130-140	340.46
140-150	287.74
150-160	222.74
160-170	141.73
170-180	48.19

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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	100	96	92	89	92	89	86	83	76	74	72	64	63	62	54	53	52	47
2	92	85	79	75	85	79	74	70	68	65	62	58	56	53	49	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	46	44	42	40	36
4	78	68	60	55	72	63	57	52	55	50	46	47	44	41	40	37	35	32
5	72	61	53	47	66	57	50	45	50	44	40	43	39	36	36	34	31	28
6	66	55	47	42	61	51	45	40	45	40	36	39	35	32	33	30	28	25
7	61	50	42	37	57	47	40	35	41	36	32	36	32	28	31	28	25	23
8	57	45	38	33	53	43	36	31	38	32	28	33	29	26	28	25	23	20
9	53	42	34	29	50	39	33	28	35	29	26	30	26	23	26	23	21	19
10	50	38	31	27	46	36	30	26	32	27	23	28	24	21	24	21	19	17

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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	8.9	9.7	9.8	10.6	11.9	5.0	5.0	5.0	5.7	7.0
	3H	9.5	10.2	10.5	11.2	12.5	5.0	5.0	5.0	5.7	6.9
	4H	9.6	10.3	10.6	11.3	12.5	5.0	5.0	5.0	5.6	6.8
	6H	9.6	10.2	10.6	11.2	12.4	5.0	5.0	5.0	5.4	6.7
	8H	9.5	10.1	10.5	11.1	12.4	5.0	5.0	5.0	5.4	6.6
	12H	9.5	10.0	10.5	11.0	12.3	5.0	5.0	5.0	5.3	6.6

UGR Viewed Endwise

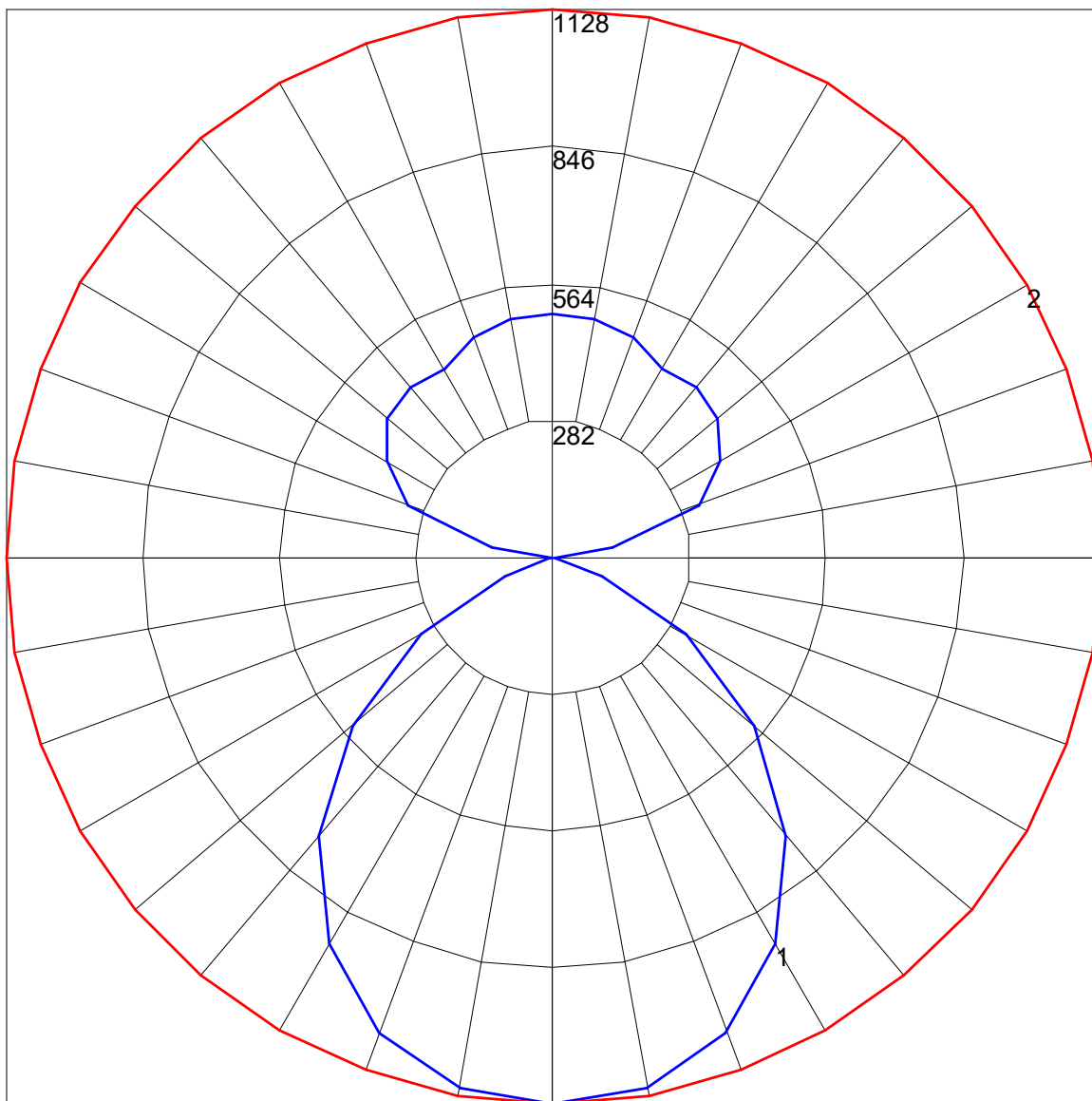
4H	2H	8.7	9.4	9.7	10.4	11.7	5.0	5.0	5.3	6.0	7.3
	3H	9.4	10.0	10.4	11.0	12.3	5.0	5.0	5.4	5.9	7.2
	4H	9.6	10.1	10.5	11.1	12.4	5.0	5.0	5.3	5.8	7.1
	6H	9.5	10.0	10.5	11.0	12.3	5.0	5.0	5.3	5.7	7.0
	8H	9.5	9.9	10.5	10.9	12.2	5.0	5.0	5.2	5.6	6.9
	12H	9.4	9.8	10.4	10.8	12.1	5.0	5.0	5.2	5.6	6.9

8H	4H	9.4	9.8	10.4	10.8	12.1	5.0	5.0	5.3	5.7	7.0
	6H	9.4	9.7	10.4	10.8	12.1	5.0	5.0	5.3	5.6	6.9
	8H	9.3	9.6	10.4	10.7	12.0	5.0	5.0	5.2	5.5	6.9
	12H	9.3	9.6	10.3	10.6	12.0	5.0	5.0	5.2	5.5	6.9

12H	4H	9.4	9.7	10.4	10.7	12.1	5.0	5.0	5.2	5.6	6.9
	6H	9.3	9.6	10.4	10.6	12.0	5.0	5.0	5.2	5.5	6.9
	8H	9.3	9.5	10.3	10.6	11.9	5.0	5.0	5.2	5.5	6.8

Maximum UGR = 12.5

POLAR GRAPH



Maximum Candela = 1128.025 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.)