



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-5050-FB-SS-30.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-4-LED-5050-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	2024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	40.6
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)	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	1588	1367	1199
55	1298	937	641
65	869	431	199
75	382	124	68
85	94	143	97

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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>	547.098	547.098	547.098	547.098	547.098	547.098	547.098	547.098	547.098	547.098
<b>10</b>	539.454	539.142	538.465	536.701	535.426	533.522	530.965	528.584	526.469	524.636
<b>20</b>	505.784	505.421	504.201	500.153	494.589	487.981	482.999	479.163	475.623	472.989
<b>30</b>	445.802	444.639	438.994	429.649	422.884	419.024	414.736	410.699	405.901	403.001
<b>40</b>	363.654	361.300	349.457	337.464	329.645	324.544	321.278	317.966	311.817	306.803
<b>50</b>	262.750	258.334	243.183	229.618	217.882	206.642	193.981	183.641	173.791	166.202
<b>60</b>	152.527	148.113	132.456	114.943	97.587	77.622	60.038	49.631	43.571	39.008
<b>70</b>	52.497	47.881	37.545	24.453	15.459	12.766	10.832	9.411	8.239	7.832
<b>80</b>	2.637	3.148	3.640	3.809	3.854	3.765	3.518	3.060	2.299	1.954
<b>90</b>	1.917	2.188	2.702	3.235	3.105	3.140	2.954	2.652	2.444	2.755
<b>100</b>	61.092	63.467	61.239	61.765	49.542	44.312	37.887	35.923	32.702	31.586
<b>110</b>	154.565	158.825	157.216	153.041	138.505	126.686	117.798	107.055	94.925	91.988
<b>120</b>	191.642	223.286	218.339	203.191	195.989	181.471	160.407	145.176	140.984	141.591
<b>130</b>	216.233	278.328	209.969	251.344	208.290	197.953	181.583	178.475	178.261	178.898
<b>140</b>	223.195	235.348	241.943	212.651	212.421	209.013	209.469	209.341	209.552	209.622
<b>150</b>	217.187	218.532	222.387	224.556	227.694	229.927	231.248	231.600	231.579	232.877
<b>160</b>	232.733	232.865	235.666	238.504	240.216	241.720	242.811	243.718	244.082	245.098
<b>170</b>	242.399	241.717	242.546	244.241	245.147	245.929	246.342	247.314	247.428	249.194
<b>180</b>	244.502	244.502	244.502	244.502	244.502	244.502	244.502	244.502	244.502	244.502

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	196.78	N.A.	9.70
0-30	408.43	N.A.	20.20
0-40	645.73	N.A.	31.90
0-60	993.63	N.A.	49.10
0-80	1062.97	N.A.	52.50
0-90	1066.26	N.A.	52.70
10-90	1014.68	N.A.	50.10
20-40	448.95	N.A.	22.20
20-50	660.21	N.A.	32.60
40-70	403.95	N.A.	20.00
60-80	69.34	N.A.	3.40
70-80	13.29	N.A.	0.70
80-90	3.28	N.A.	0.20
90-110	122.41	N.A.	6.00
90-120	277.52	N.A.	13.70
90-130	452.83	N.A.	22.40
90-150	757.51	N.A.	37.40
90-180	957.65	N.A.	47.30
110-180	835.24	N.A.	41.30
0-180	2023.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	51.57
10-20	145.21
20-30	211.64
30-40	237.31
40-50	211.26
50-60	136.63
60-70	56.05
70-80	13.29
80-90	3.28
90-100	27.76
100-110	94.65
110-120	155.11
120-130	175.31
130-140	165.13
140-150	139.55
150-160	108.03
160-170	68.74
170-180	23.37

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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	8.7	9.5	9.6	10.4	11.7	3.8	4.6	4.7	5.5	6.8
	3H	9.3	10.0	10.3	11.0	12.3	3.8	4.5	4.7	5.5	6.7
	4H	9.4	10.1	10.4	11.1	12.3	3.7	4.4	4.7	5.4	6.6
	6H	9.4	10.0	10.4	11.0	12.3	3.6	4.3	4.6	5.2	6.5
	8H	9.3	9.9	10.3	10.9	12.2	3.6	4.2	4.6	5.2	6.5
	12H	9.3	9.8	10.3	10.8	12.1	3.6	4.1	4.6	5.1	6.4

UGR Viewed Endwise

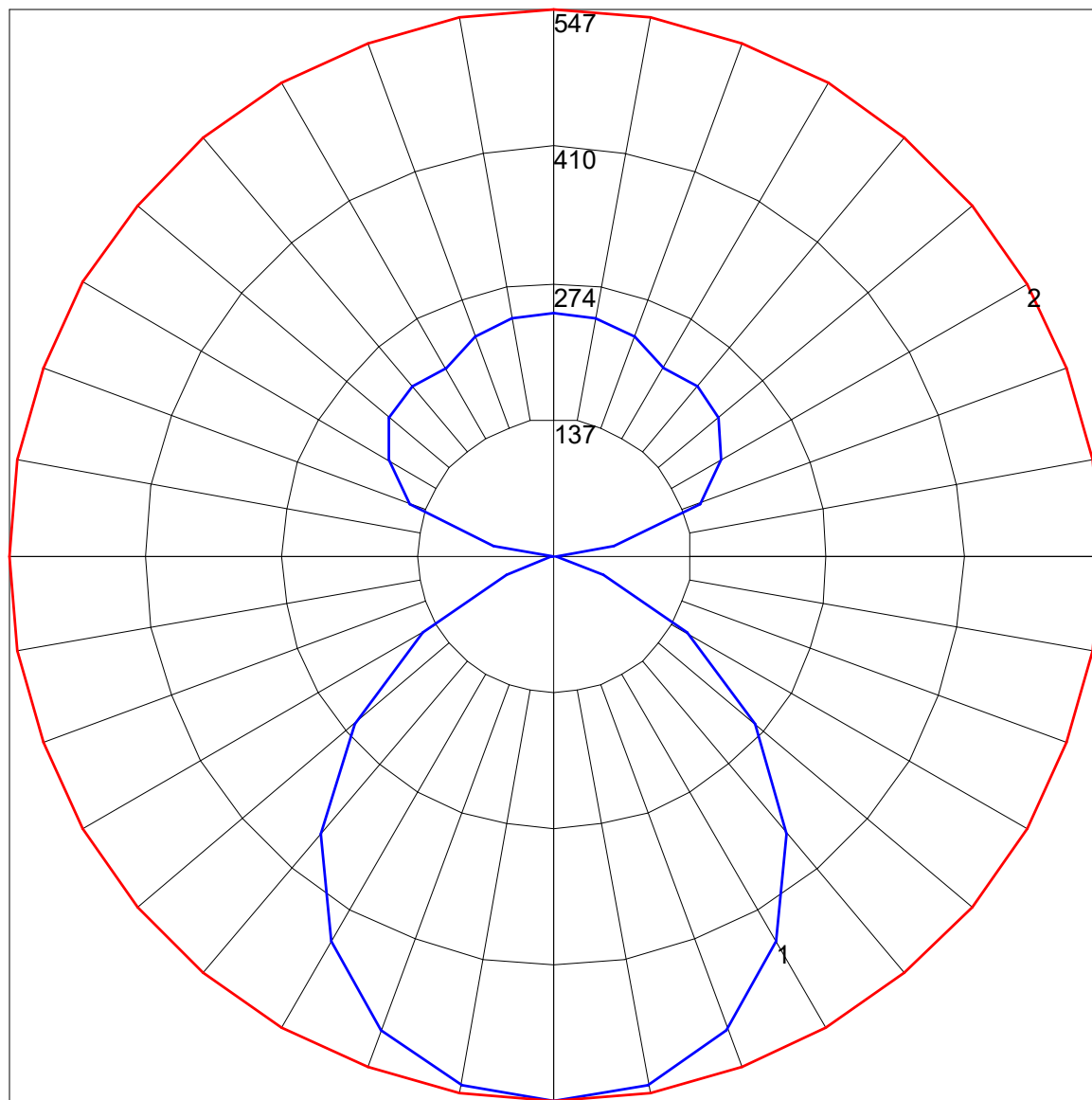
4H	2H	8.5	9.2	9.5	10.2	11.5	4.1	4.8	5.1	5.8	7.1
	3H	9.2	9.8	10.2	10.8	12.1	4.2	4.7	5.2	5.7	7.0
	4H	9.4	9.9	10.4	10.9	12.2	4.1	4.6	5.1	5.6	6.9
	6H	9.3	9.8	10.3	10.8	12.1	4.1	4.5	5.1	5.5	6.8
	8H	9.3	9.7	10.3	10.7	12.0	4.0	4.4	5.0	5.4	6.8
	12H	9.2	9.6	10.3	10.6	11.9	4.0	4.4	5.0	5.4	6.7

8H	4H	9.2	9.6	10.2	10.6	12.0	4.1	4.5	5.1	5.5	6.8
	6H	9.2	9.5	10.2	10.6	11.9	4.0	4.4	5.1	5.4	6.7
	8H	9.1	9.4	10.2	10.5	11.8	4.0	4.3	5.1	5.3	6.7
	12H	9.1	9.4	10.1	10.4	11.8	4.0	4.3	5.1	5.3	6.7

12H	4H	9.2	9.5	10.2	10.5	11.9	4.0	4.4	5.1	5.4	6.7
	6H	9.1	9.4	10.2	10.5	11.8	4.0	4.3	5.0	5.3	6.7
	8H	9.1	9.3	10.1	10.4	11.8	4.0	4.2	5.0	5.3	6.7

Maximum UGR = 12.3

POLAR GRAPH



Maximum Candela = 547.098 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.)