



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPEC24-SM-LED-VHO-CW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5820A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]02/26/16  
[TEST DATE]07/15/14  
[MANUFACTURER]LSI INDUSTRIES, INC  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor  
[LUMCAT]LPEC24-SM-LED-VHO-CW

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	59.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2602	3006	3297
55	2424	3066	3577
65	2195	3152	3994
75	1942	3370	4697
85	1668	3908	5290

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2107.38	2107.38	2107.38	2107.38	2107.38
2.5	2161.97	2131.07	2105.32	2081.63	2065.15
5.0	2156.82	2126.95	2102.23	2079.57	2064.12
7.5	2145.49	2116.65	2096.05	2076.48	2063.09
10.0	2130.04	2103.26	2085.75	2071.33	2060.00
12.5	2108.41	2085.75	2073.39	2064.12	2054.85
15.0	2081.63	2063.09	2057.94	2053.82	2046.61
17.5	2049.70	2035.28	2037.34	2041.46	2037.34
20.0	2011.59	2003.35	2014.68	2027.04	2023.95
22.5	1968.33	1966.27	1988.93	2009.53	2010.56
25.0	1919.92	1924.04	1959.06	1989.96	1993.05
27.5	1866.36	1877.69	1924.04	1966.27	1972.45
30.0	1808.68	1825.16	1885.93	1940.52	1949.79
32.5	1745.85	1770.57	1843.70	1909.62	1921.98
35.0	1678.90	1709.80	1798.38	1875.63	1891.08
37.5	1604.74	1644.91	1749.97	1838.55	1857.09
40.0	1526.46	1575.90	1696.41	1797.35	1818.98
42.5	1449.21	1504.83	1640.79	1754.09	1777.78
45.0	1368.87	1431.70	1581.05	1704.65	1734.52
47.5	1286.47	1355.48	1517.19	1653.15	1688.17
50.0	1203.04	1276.17	1451.27	1599.59	1636.67
52.5	1119.61	1195.83	1380.20	1539.85	1585.17
55.0	1034.12	1113.43	1308.10	1479.08	1526.46
57.5	949.66	1026.91	1230.85	1412.13	1464.66
60.0	861.08	940.39	1153.60	1344.15	1399.77
62.5	772.50	853.87	1071.20	1272.05	1329.73
65.0	690.10	769.41	990.86	1195.83	1255.57
67.5	607.70	684.95	905.37	1115.49	1177.29
70.0	527.36	601.52	821.94	1032.06	1087.68
72.5	449.08	520.15	735.42	943.48	1000.13
75.0	373.89	439.81	648.90	847.69	904.34
77.5	300.76	362.56	558.26	744.69	795.16
80.0	229.69	288.40	461.44	630.36	674.65
82.5	164.80	218.36	362.56	497.49	530.45
85.0	108.15	150.38	253.38	329.60	342.99
87.5	56.65	82.40	129.78	146.26	143.17
90.0	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	782.40	N.A.	11.10
0-30	1685.15	N.A.	23.80
0-40	2806.73	N.A.	39.70
0-60	5173.39	N.A.	73.10
0-80	6821.82	N.A.	96.40
0-90	7077.58	N.A.	100.00
10-90	6877.19	N.A.	97.20
20-40	2024.33	N.A.	28.60
20-50	3233.71	N.A.	45.70
40-70	3338.06	N.A.	47.20
60-80	1648.44	N.A.	23.30
70-80	677.03	N.A.	9.60
80-90	255.76	N.A.	3.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7077.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	200.40
10-20	582.01
20-30	902.75
30-40	1121.58
40-50	1209.38
50-60	1157.27
60-70	971.41
70-80	677.03
80-90	255.76
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

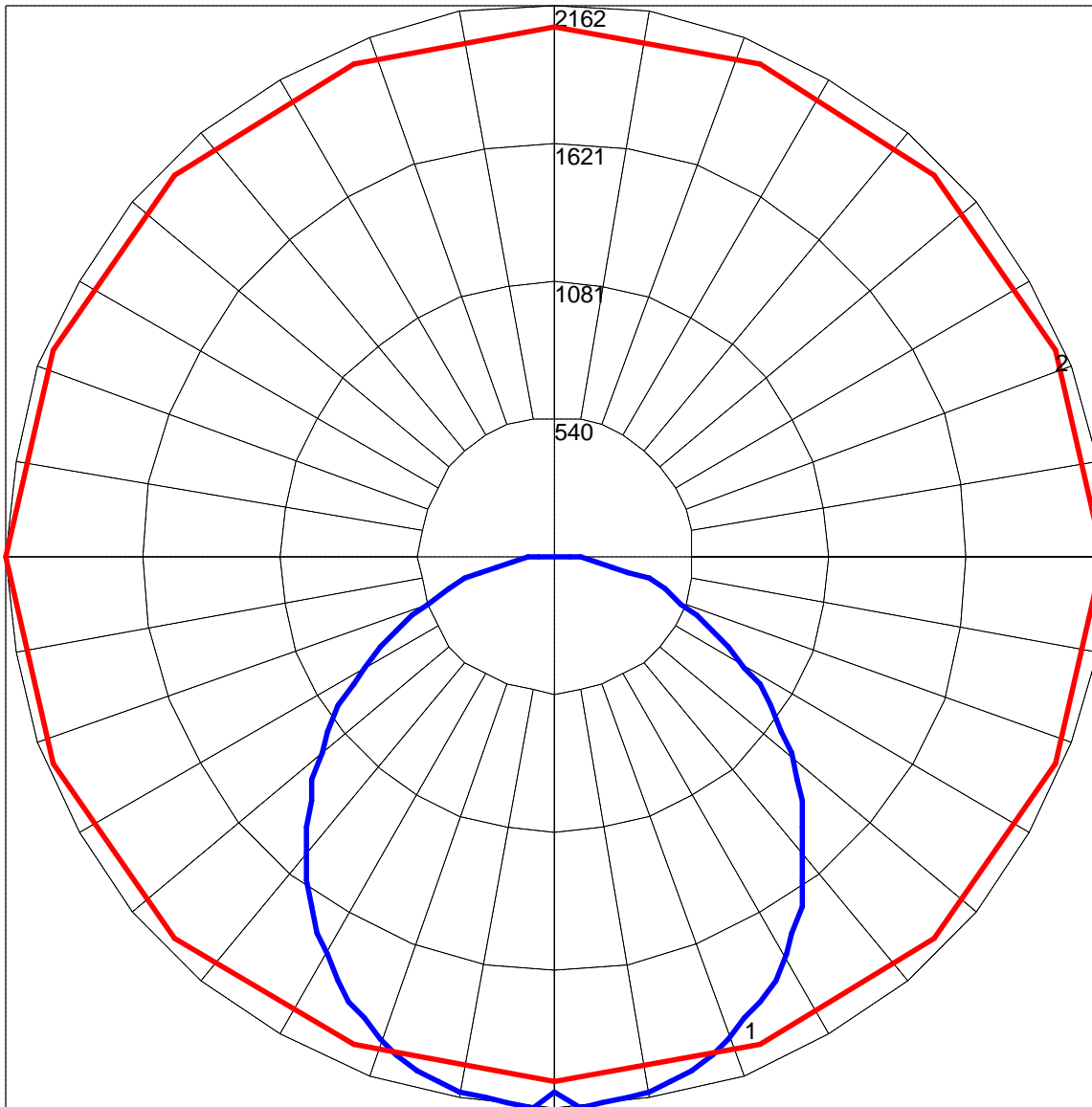
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	107	102	97	93	105	100	95	91	95	92	88	91	88	86	88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55
4	80	67	58	51	78	66	57	50	63	56	50	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	49	43	54	48	42	53	46	42	39
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 2161.97 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)