



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPEC22-LED-20L-35.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-9023R Report: LSI-PH0407

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]06/16/17

[TEST DATE]06/16/17

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]LPEC22-LED-20L-35

[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	18.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	1468	1760	2026
55	1345	1795	2231
65	1221	1845	2500
75	1060	1953	2960
85	925	2098	2653

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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>
<b>0.0</b>	607	607	607	607	607
<b>2.5</b>	619	615	608	601	599
<b>5.0</b>	618	614	607	602	600
<b>7.5</b>	615	612	607	602	601
<b>10.0</b>	611	609	605	602	601
<b>12.5</b>	605	604	603	602	602
<b>15.0</b>	598	598	599	601	602
<b>17.5</b>	589	590	595	599	601
<b>20.0</b>	579	581	589	597	600
<b>22.5</b>	567	571	583	594	599
<b>25.0</b>	552	558	575	590	596
<b>27.5</b>	535	544	565	585	593
<b>30.0</b>	518	529	555	578	588
<b>32.5</b>	498	512	542	571	582
<b>35.0</b>	478	493	528	562	574
<b>37.5</b>	456	474	514	552	566
<b>40.0</b>	434	453	498	541	556
<b>42.5</b>	410	432	481	528	546
<b>45.0</b>	386	409	463	514	533
<b>47.5</b>	362	386	444	500	521
<b>50.0</b>	337	362	425	485	507
<b>52.5</b>	312	337	404	468	492
<b>55.0</b>	287	314	383	450	476
<b>57.5</b>	263	289	361	431	456
<b>60.0</b>	239	265	338	411	437
<b>62.5</b>	215	241	314	388	415
<b>65.0</b>	192	217	290	365	393
<b>67.5</b>	169	192	265	341	369
<b>70.0</b>	146	167	240	315	344
<b>72.5</b>	124	144	215	289	317
<b>75.0</b>	102	121	188	259	285
<b>77.5</b>	82	100	161	228	250
<b>80.0</b>	63	79	133	191	210
<b>82.5</b>	46	60	103	146	155
<b>85.0</b>	30	39	68	89	86
<b>87.5</b>	15	20	29	24	18
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	227.42	N.A.	10.90
0-30	492.27	N.A.	23.70
0-40	822.40	N.A.	39.60
0-60	1520.14	N.A.	73.20
0-80	2008.43	N.A.	96.70
0-90	2077.98	N.A.	100.00
10-90	2020.02	N.A.	97.20
20-40	594.97	N.A.	28.60
20-50	951.24	N.A.	45.80
40-70	985.56	N.A.	47.40
60-80	488.29	N.A.	23.50
70-80	200.48	N.A.	9.60
80-90	69.55	N.A.	3.30
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	2077.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.96
10-20	169.47
20-30	264.85
30-40	330.13
40-50	356.27
50-60	341.48
60-70	287.81
70-80	200.48
80-90	69.55
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

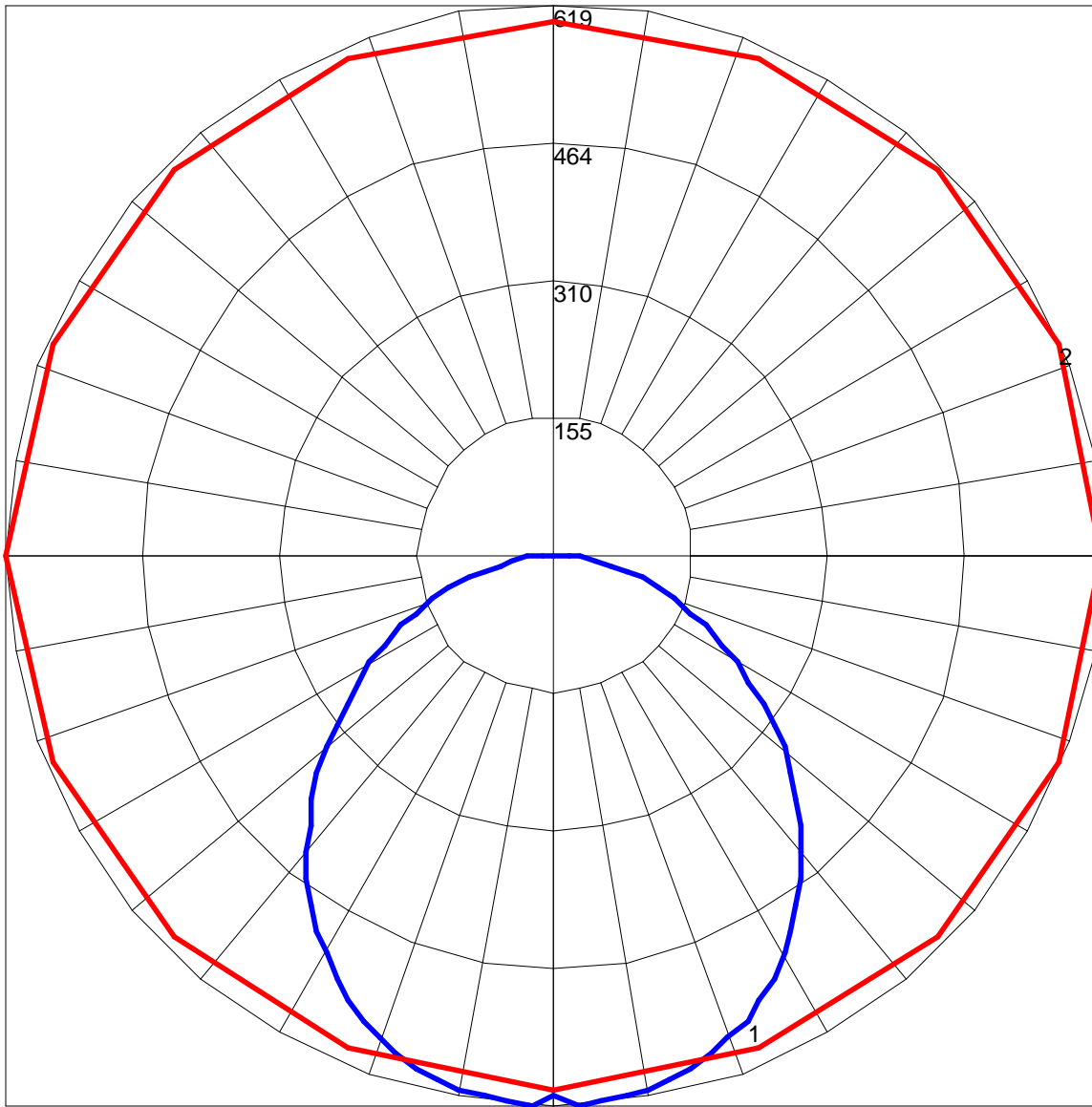
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	89	91	89	86	88	85	83	81
2	97	88	80	74	94	86	79	73	82	77	72	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	48	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	28	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	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 = 619 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.)