



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P42-LED35LO-SAL-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041411802  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 5/14/2014  
 [MANUFACT] PRUDENTIAL LIGHTING  
 [LUMCAT] P42-LED35LO-SAL-TMW-D1-SC-UNV-X1  
 [LUMINAIRE] 5"SQ. X 47-3/4"L. LED LUMINAIRES  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC OT/UNV/DIM/L  
 [BALLAST] INPUT: 120-277VAC, [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [ INPUT] 120VAC, 19W  
 [ TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1410
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.91 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4286	3941	3667
55	3876	3502	3231
65	3500	3173	2908
75	2970	2692	2495
85	2412	2328	2311

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	613.170	613.170	613.170	613.170	613.170	613.170	613.170	613.170	613.170	613.170
<b>5</b>	605.304	605.286	605.394	605.340	605.556	606.087	606.519	606.753	606.618	606.321
<b>10</b>	592.335	592.209	592.146	591.885	591.921	592.164	592.362	593.019	593.613	593.487
<b>15</b>	572.535	572.625	572.787	572.805	572.994	573.300	571.104	568.692	567.450	566.262
<b>20</b>	547.299	547.083	546.021	543.348	541.323	540.423	539.226	537.678	536.706	536.661
<b>25</b>	509.490	509.301	508.626	507.573	506.340	504.927	504.072	504.018	498.933	495.108
<b>30</b>	470.925	470.646	469.836	468.504	467.082	467.136	466.488	459.684	456.354	454.023
<b>35</b>	428.598	428.328	427.491	426.042	425.700	425.610	419.076	415.287	412.848	407.727
<b>40</b>	384.309	383.895	382.977	381.294	380.790	380.484	373.626	369.279	368.667	360.333
<b>45</b>	341.586	341.073	337.752	335.664	333.567	333.369	327.474	323.676	318.951	314.091
<b>50</b>	293.049	292.914	293.418	293.634	288.279	284.886	284.859	278.181	273.276	269.100
<b>55</b>	250.587	250.830	251.064	246.402	244.143	243.549	237.078	233.523	229.833	226.431
<b>60</b>	210.699	211.194	211.518	208.008	206.154	203.418	199.548	196.254	192.132	189.720
<b>65</b>	166.707	167.310	168.165	165.348	163.944	160.893	158.616	156.195	153.810	151.164
<b>70</b>	126.414	126.423	124.704	123.723	122.013	120.456	118.926	117.693	115.506	115.227
<b>75</b>	86.634	85.824	86.274	84.321	83.637	83.385	82.782	80.973	79.812	78.543
<b>80</b>	51.687	51.633	50.841	50.796	51.075	49.950	49.194	48.708	48.186	47.718
<b>85</b>	23.697	23.247	23.706	23.121	23.076	23.067	23.058	22.995	22.932	22.869
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	613.170	613.170	613.170	613.170	613.170	613.170	613.170	613.170	613.170
<b>5</b>	605.952	605.682	605.349	604.845	604.710	604.683	605.349	605.682	605.646
<b>10</b>	591.444	589.392	588.600	587.826	587.124	586.296	586.206	587.664	587.718
<b>15</b>	564.822	564.300	564.741	561.258	559.638	558.540	557.910	559.080	558.864
<b>20</b>	532.071	529.281	527.202	526.932	525.087	522.279	521.181	521.757	521.676
<b>25</b>	492.282	491.787	486.504	483.858	483.147	480.006	478.440	478.233	478.170
<b>30</b>	449.901	444.960	443.025	439.065	436.221	436.356	432.342	431.901	431.829
<b>35</b>	402.714	401.382	395.100	392.670	390.195	386.694	385.146	384.480	384.381
<b>40</b>	356.112	351.972	348.507	345.159	342.288	339.831	338.238	337.599	337.365
<b>45</b>	309.906	306.261	302.751	299.457	296.622	294.336	292.968	292.437	292.275
<b>50</b>	265.356	261.927	258.678	255.564	253.017	251.208	249.651	249.084	249.030
<b>55</b>	223.227	220.023	217.044	214.380	212.337	210.699	209.412	208.746	208.863
<b>60</b>	186.795	184.347	181.593	179.388	177.804	176.256	175.248	174.573	174.681
<b>65</b>	148.293	145.944	143.973	142.182	140.904	139.653	139.059	138.519	138.501
<b>70</b>	111.960	109.872	108.162	107.046	106.002	105.264	104.742	104.337	104.238
<b>75</b>	77.247	76.194	75.294	74.610	74.007	73.575	73.161	72.918	72.783
<b>80</b>	47.268	46.872	46.467	46.143	45.909	45.693	45.468	45.333	45.252
<b>85</b>	22.806	22.761	22.716	22.698	22.689	22.680	22.689	22.698	22.707
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	216.64	N.A.	15.40
0-30	444.41	N.A.	31.50
0-40	699.27	N.A.	49.60
0-60	1148.53	N.A.	81.50
0-80	1384.01	N.A.	98.20
0-90	1409.6	N.A.	100.00
10-90	1352.24	N.A.	95.90
20-40	482.63	N.A.	34.20
20-50	726.36	N.A.	51.50
40-70	600.20	N.A.	42.60
60-80	235.49	N.A.	16.70
70-80	84.54	N.A.	6.00
80-90	25.59	N.A.	1.80
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	1409.6	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.36
10-20	159.29
20-30	227.77
30-40	254.86
40-50	243.73
50-60	205.52
60-70	150.95
70-80	84.54
80-90	25.59
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

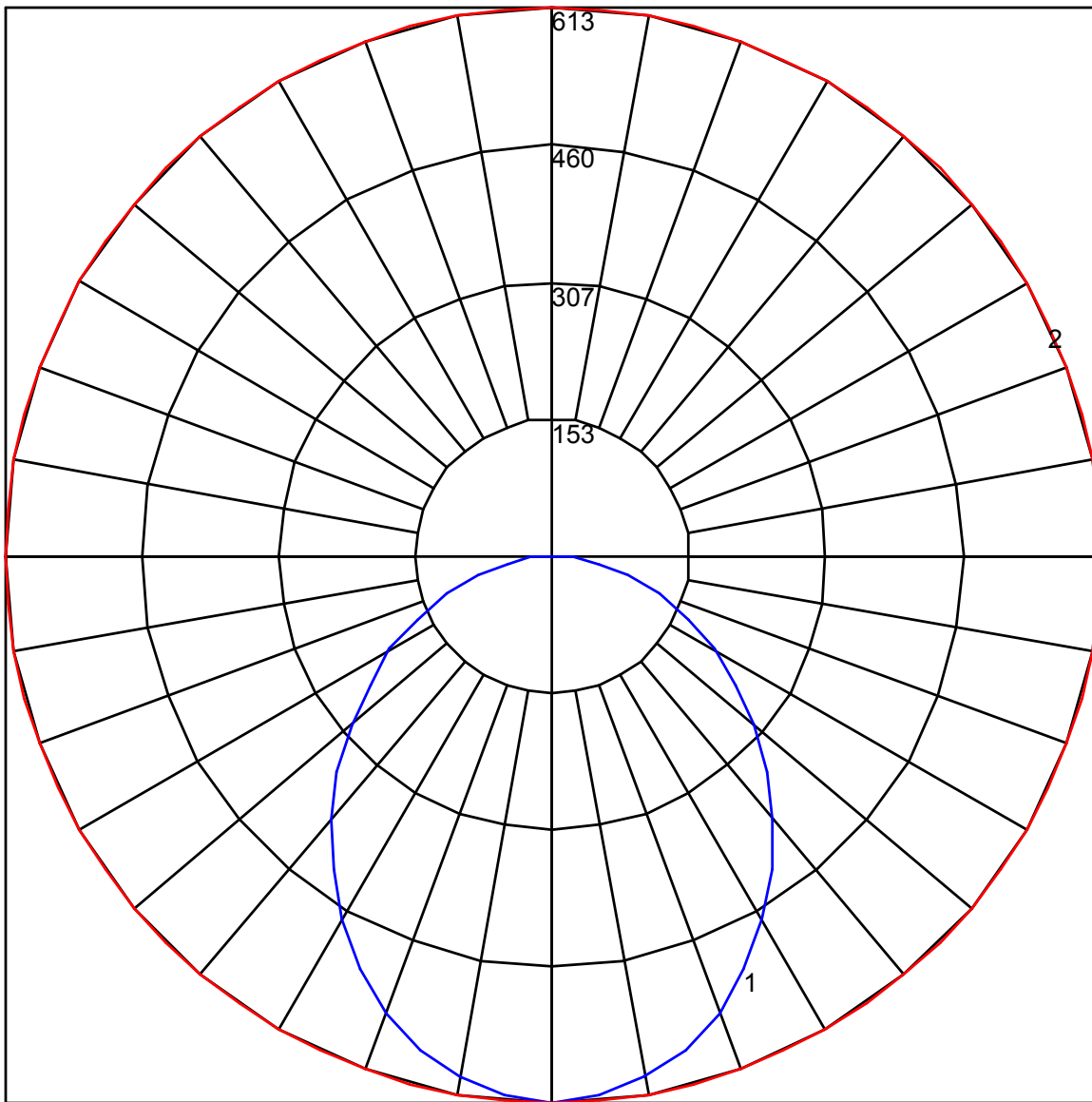
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	36	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 613.17 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.)