



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P43-LED35-MO-SAL-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041411802  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 5/14/2014  
 [MANUFACTURER] PRUDENTIAL LIGHTING  
 [LUMEN CATEGORY] P43-LED35-MO-SAL-D1  
 [LUMINAIRE] 5"SQ. X 47-3/4"L. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLAST CATEGORY] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC  
 [LAMP POSITION] 0,0  
 [LAMP CATEGORY] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [ INPUT] 120VAC  
 [ TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2302
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	28
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7000	6437	5990
55	6331	5721	5277
65	5716	5183	4749
75	4851	4398	4075
85	3940	3802	3775

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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>	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511
<b>5</b>	988.663	988.634	988.810	988.722	989.075	989.942	990.648	991.030	990.809	990.324
<b>10</b>	967.481	967.275	967.172	966.746	966.804	967.201	967.525	968.598	969.568	969.362
<b>15</b>	935.141	935.288	935.552	935.582	935.890	936.390	932.803	928.864	926.835	924.895
<b>20</b>	893.922	893.569	891.834	887.468	884.161	882.691	880.736	878.207	876.620	876.546
<b>25</b>	832.167	831.858	830.756	829.036	827.022	824.714	823.318	823.229	814.924	808.676
<b>30</b>	769.178	768.722	767.399	765.223	762.901	762.989	761.930	750.817	745.378	741.571
<b>35</b>	700.043	699.602	698.235	695.869	695.310	695.163	684.491	678.302	674.318	665.954
<b>40</b>	627.705	627.029	625.529	622.780	621.957	621.457	610.256	603.156	602.156	588.544
<b>45</b>	557.924	557.086	551.662	548.251	544.826	544.503	534.874	528.671	520.953	513.015
<b>50</b>	478.647	478.426	479.249	479.602	470.856	465.314	465.270	454.362	446.351	439.530
<b>55</b>	409.292	409.689	410.071	402.457	398.767	397.797	387.227	381.421	375.394	369.837
<b>60</b>	344.142	344.950	345.479	339.746	336.718	332.249	325.928	320.548	313.816	309.876
<b>65</b>	272.288	273.273	274.670	270.068	267.775	262.792	259.073	255.119	251.223	246.901
<b>70</b>	206.476	206.491	203.683	202.081	199.288	196.745	194.246	192.232	188.660	188.204
<b>75</b>	141.502	140.179	140.914	137.724	136.607	136.196	135.211	132.256	130.360	128.287
<b>80</b>	84.422	84.334	83.040	82.967	83.423	81.585	80.350	79.556	78.704	77.939
<b>85</b>	38.705	37.970	38.720	37.764	37.691	37.676	37.661	37.559	37.456	37.353
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511	1001.511	
<b>5</b>	989.722	989.281	988.737	987.914	987.693	987.649	988.737	989.281	989.222	
<b>10</b>	966.025	962.674	961.380	960.116	958.969	957.617	957.470	959.851	959.939	
<b>15</b>	922.543	921.690	922.410	916.721	914.075	912.282	911.253	913.164	912.811	
<b>20</b>	869.049	864.492	861.097	860.656	857.642	853.056	851.262	852.203	852.071	
<b>25</b>	804.061	803.252	794.623	790.301	789.140	784.010	781.452	781.114	781.011	
<b>30</b>	734.838	726.768	723.608	717.140	712.494	712.715	706.159	705.438	705.321	
<b>35</b>	657.766	655.591	645.330	641.361	637.319	631.600	629.072	627.984	627.822	
<b>40</b>	581.650	574.888	569.228	563.760	559.070	555.057	552.455	551.412	551.030	
<b>45</b>	506.180	500.226	494.493	489.113	484.483	480.749	478.514	477.647	477.383	
<b>50</b>	433.415	427.814	422.507	417.421	413.261	410.306	407.763	406.837	406.749	
<b>55</b>	364.604	359.371	354.505	350.154	346.817	344.142	342.040	340.952	341.143	
<b>60</b>	305.099	301.100	296.602	293.000	290.413	287.885	286.238	285.136	285.312	
<b>65</b>	242.212	238.375	235.156	232.231	230.143	228.100	227.130	226.248	226.218	
<b>70</b>	182.868	179.458	176.665	174.842	173.137	171.931	171.079	170.417	170.255	
<b>75</b>	126.170	124.450	122.980	121.863	120.878	120.173	119.496	119.099	118.879	
<b>80</b>	77.204	76.558	75.896	75.367	74.985	74.632	74.264	74.044	73.912	
<b>85</b>	37.250	37.176	37.103	37.073	37.059	37.044	37.059	37.073	37.088	
<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	353.85	N.A.	15.40
0-30	725.88	N.A.	31.50
0-40	1142.15	N.A.	49.60
0-60	1875.93	N.A.	81.50
0-80	2260.56	N.A.	98.20
0-90	2302.34	N.A.	100.00
10-90	2208.66	N.A.	95.90
20-40	788.30	N.A.	34.20
20-50	1186.39	N.A.	51.50
40-70	980.32	N.A.	42.60
60-80	384.63	N.A.	16.70
70-80	138.08	N.A.	6.00
80-90	41.79	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	2302.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	93.68
10-20	260.17
20-30	372.03
30-40	416.27
40-50	398.09
50-60	335.69
60-70	246.54
70-80	138.08
80-90	41.79
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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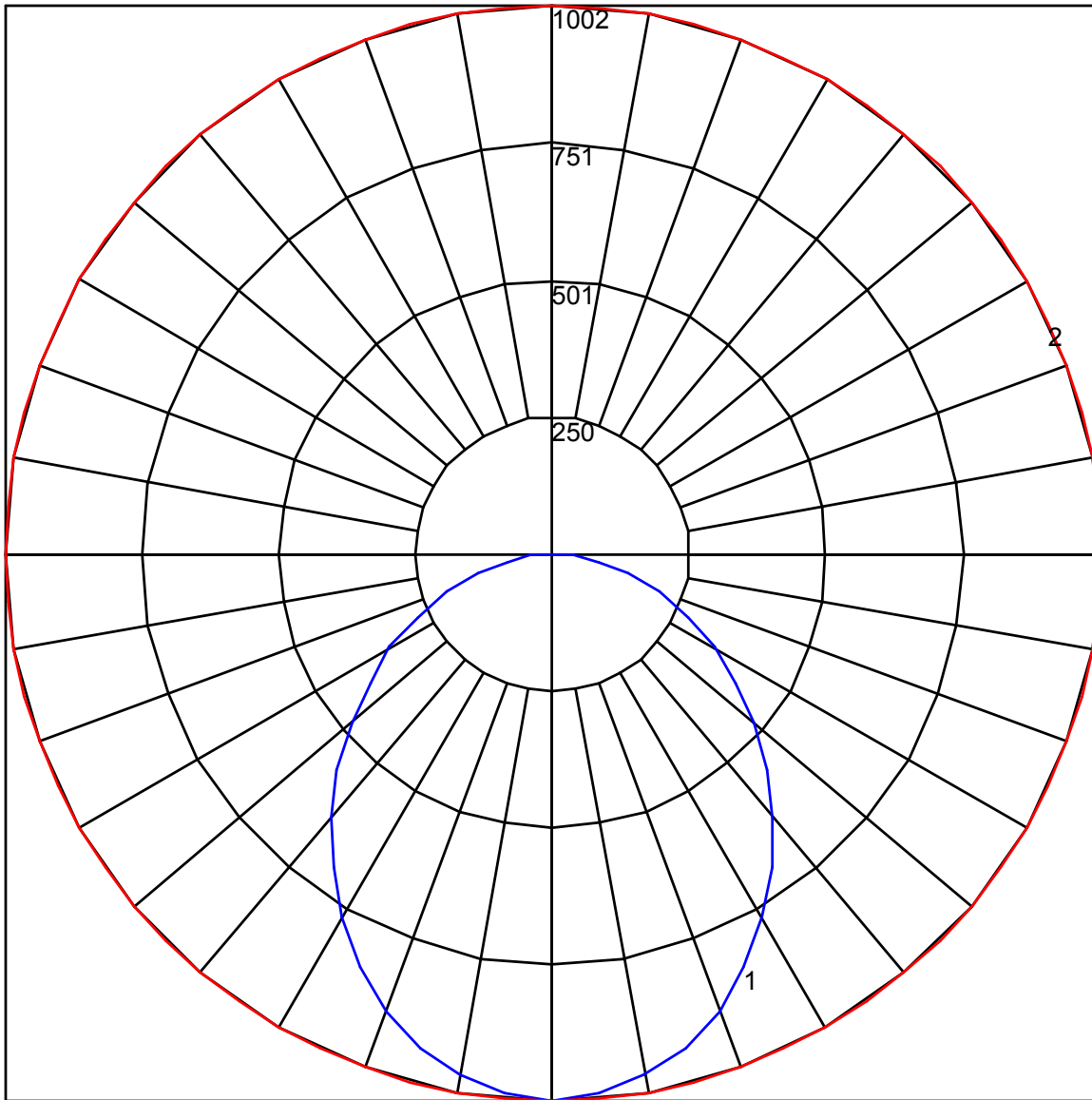
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	97	107	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	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	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	37	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 = 1001.511 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.)