



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P40-LED35SO-OPL-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041411801  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 5/14/2014  
 [MANUFAC] PRUDENTIAL LIGHTING  
 [LUMCAT] P40-LED35SO-OPL-TMW-D1-SC-UNV  
 [LUMINAIRE] 4-1/8"SQ. X 48-1/4"L. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC OT30W/PRG1050C/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, 39W  
 [ TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3187
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8243	8032	7813
55	7578	7357	7139
65	7058	6815	6632
75	5995	6044	6014
85	4567	5556	5946

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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>	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879
<b>5</b>	1267.257	1267.527	1267.547	1267.392	1268.106	1269.457	1270.847	1271.349	1271.310	1271.040
<b>10</b>	1242.380	1242.688	1243.016	1243.055	1244.078	1244.927	1244.792	1244.136	1243.364	1243.132
<b>15</b>	1199.823	1200.035	1199.727	1199.225	1199.572	1200.344	1200.981	1201.309	1201.753	1200.248
<b>20</b>	1146.536	1146.594	1146.999	1147.211	1146.459	1144.702	1144.046	1143.313	1142.116	1140.514
<b>25</b>	1078.407	1078.387	1077.808	1076.921	1076.264	1076.342	1077.403	1075.975	1075.087	1070.243
<b>30</b>	1005.298	1005.433	1004.488	1002.230	1002.712	1000.010	997.463	995.745	993.120	992.290
<b>35</b>	918.545	918.178	916.769	916.113	915.109	914.125	913.237	911.848	907.988	903.047
<b>40</b>	829.031	828.684	827.893	827.005	827.140	826.928	824.457	819.246	815.637	813.360
<b>45</b>	737.163	736.681	736.353	738.321	736.681	732.223	729.521	726.278	723.499	718.307
<b>50</b>	643.365	642.941	643.018	645.431	643.481	638.251	635.588	634.256	628.408	624.915
<b>55</b>	549.703	549.394	548.641	547.753	550.031	544.974	542.426	540.246	536.366	533.645
<b>60</b>	470.437	469.704	464.474	463.335	462.370	463.528	459.012	457.835	454.206	452.064
<b>65</b>	377.218	375.867	372.915	371.834	371.544	370.155	368.669	367.356	365.967	364.268
<b>70</b>	283.363	282.996	283.594	281.992	281.645	281.240	280.854	280.275	279.580	278.808
<b>75</b>	196.242	195.104	195.548	195.702	196.300	196.860	197.265	197.574	197.806	197.825
<b>80</b>	116.958	115.819	116.611	117.846	119.255	120.625	121.802	122.922	123.925	124.774
<b>85</b>	50.334	50.315	51.570	53.133	54.715	56.240	57.707	59.039	60.197	61.239
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. 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>	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879	1279.879
<b>5</b>	1270.519	1270.268	1270.133	1269.110	1268.242	1267.547	1267.682	1268.164	1268.975
<b>10</b>	1242.399	1241.569	1241.260	1240.121	1239.330	1238.384	1237.941	1238.655	1239.407
<b>15</b>	1199.977	1197.179	1195.519	1194.187	1193.222	1192.277	1191.273	1192.122	1192.470
<b>20</b>	1139.144	1138.275	1137.175	1133.566	1132.080	1130.459	1129.185	1130.150	1129.957
<b>25</b>	1067.444	1064.742	1063.719	1062.118	1058.605	1056.559	1055.305	1055.613	1055.768
<b>30</b>	989.241	983.547	981.038	979.185	977.989	973.743	972.102	972.276	972.797
<b>35</b>	899.148	897.122	893.030	889.942	888.553	885.079	883.033	883.245	883.496
<b>40</b>	808.091	804.327	802.571	798.383	795.604	794.253	791.512	791.686	791.532
<b>45</b>	714.737	713.077	708.426	706.862	706.033	701.246	698.911	698.814	698.660
<b>50</b>	622.271	619.414	615.824	612.891	610.227	607.911	606.850	606.560	606.888
<b>55</b>	530.885	528.202	525.578	522.895	520.502	519.093	517.722	517.529	517.819
<b>60</b>	449.902	447.470	445.039	442.935	440.870	440.059	438.978	438.708	438.670
<b>65</b>	362.550	360.833	359.096	357.494	356.452	355.274	354.985	354.541	354.444
<b>70</b>	277.920	276.916	275.893	275.237	274.562	274.079	273.886	273.481	273.288
<b>75</b>	197.806	197.786	197.651	197.535	197.420	197.420	197.246	196.918	196.841
<b>80</b>	125.508	126.106	126.531	126.859	127.168	127.264	127.264	127.187	127.187
<b>85</b>	62.204	63.053	63.786	64.385	64.829	65.157	65.369	65.504	65.543
<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	457.60	N.A.	14.40
0-30	949.65	N.A.	29.80
0-40	1514.09	N.A.	47.50
0-60	2549.38	N.A.	80.00
0-80	3120.61	N.A.	97.90
0-90	3186.74	N.A.	100.00
10-90	3066.44	N.A.	96.20
20-40	1056.49	N.A.	33.20
20-50	1611.64	N.A.	50.60
40-70	1396.54	N.A.	43.80
60-80	571.23	N.A.	17.90
70-80	209.98	N.A.	6.60
80-90	66.13	N.A.	2.10
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	3186.74	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	120.30
10-20	337.30
20-30	492.05
30-40	564.44
40-50	555.15
50-60	480.14
60-70	361.25
70-80	209.98
80-90	66.13
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

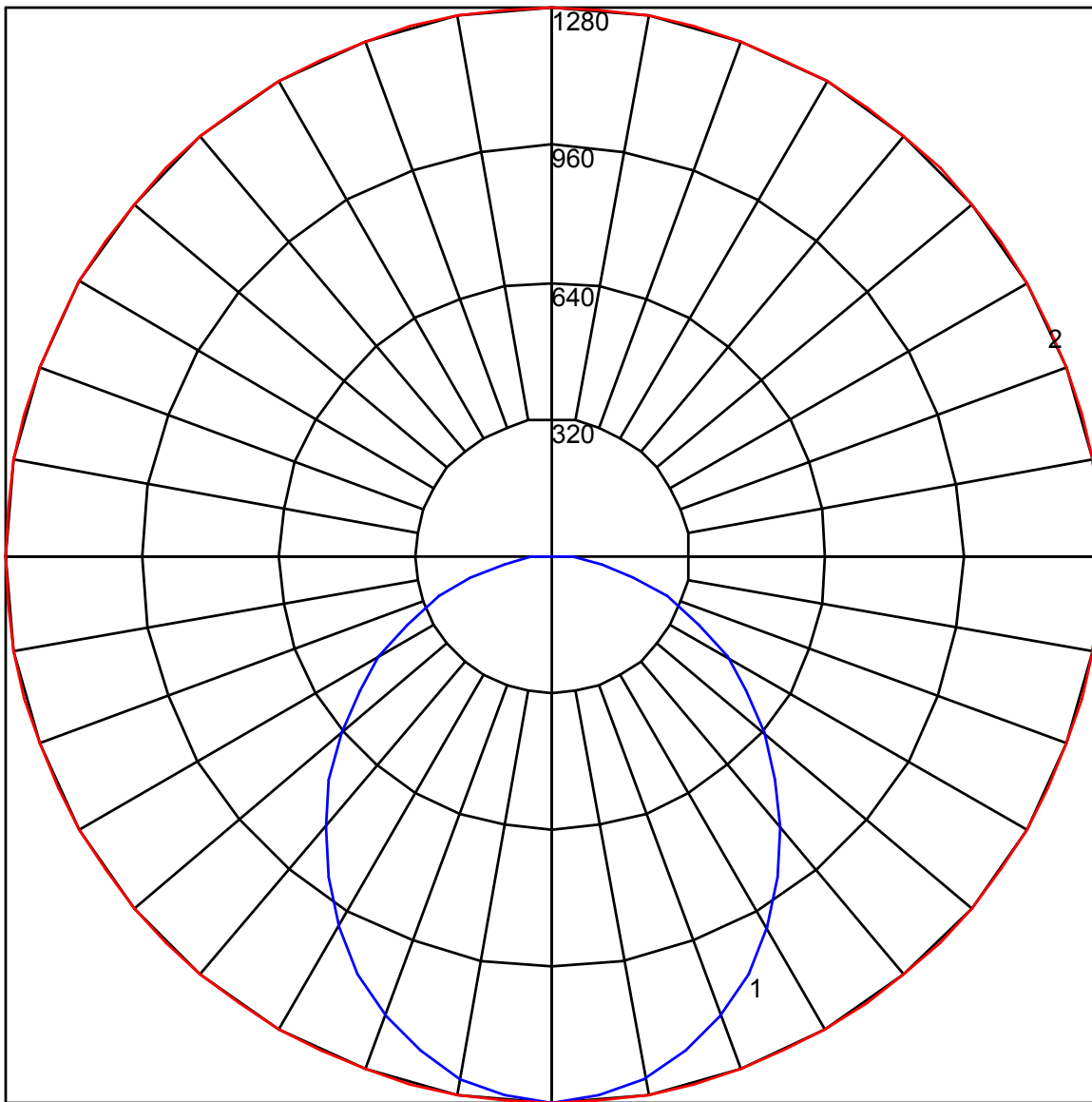
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

POLAR GRAPH



Maximum Candela = 1279.879 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.)