



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P40-LED35-MO-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-LED35-MO-OPL--D1  
 [LUMINAIRE] 4-1/8"SQ. X 48-1/4"L. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2394
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	28
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	6193	6035	5870
55	5693	5527	5363
65	5302	5120	4982
75	4504	4541	4518
85	3431	4174	4467

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	961.568	961.568	961.568	961.568	961.568	961.568	961.568	961.568	961.568	961.568
<b>5</b>	952.085	952.288	952.302	952.186	952.723	953.738	954.782	955.159	955.130	954.927
<b>10</b>	933.394	933.626	933.873	933.902	934.670	935.308	935.207	934.714	934.134	933.960
<b>15</b>	901.422	901.581	901.349	900.972	901.233	901.813	902.292	902.538	902.872	901.741
<b>20</b>	861.387	861.431	861.735	861.895	861.329	860.010	859.517	858.966	858.067	856.863
<b>25</b>	810.202	810.188	809.753	809.086	808.593	808.651	809.448	808.375	807.708	804.069
<b>30</b>	755.276	755.378	754.667	752.971	753.333	751.303	749.389	748.099	746.127	745.503
<b>35</b>	690.099	689.823	688.765	688.272	687.518	686.778	686.111	685.067	682.167	678.455
<b>40</b>	622.848	622.587	621.992	621.325	621.427	621.267	619.411	615.496	612.785	611.074
<b>45</b>	553.828	553.465	553.219	554.698	553.465	550.116	548.086	545.650	543.562	539.661
<b>50</b>	483.358	483.039	483.097	484.909	483.445	479.515	477.514	476.514	472.120	469.496
<b>55</b>	412.989	412.757	412.192	411.525	413.236	409.437	407.523	405.884	402.970	400.925
<b>60</b>	353.438	352.887	348.957	348.102	347.377	348.247	344.854	343.969	341.243	339.634
<b>65</b>	283.403	282.388	280.169	279.357	279.140	278.096	276.979	275.993	274.949	273.673
<b>70</b>	212.889	212.614	213.063	211.860	211.599	211.294	211.004	210.569	210.047	209.467
<b>75</b>	147.436	146.581	146.914	147.030	147.480	147.900	148.205	148.437	148.611	148.625
<b>80</b>	87.870	87.015	87.609	88.537	89.596	90.625	91.510	92.351	93.105	93.743
<b>85</b>	37.816	37.802	38.744	39.919	41.108	42.253	43.355	44.356	45.226	46.009
<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**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	961.568	961.568	961.568	961.568	961.568	961.568	961.568	961.568	961.568
<b>5</b>	954.535	954.347	954.245	953.477	952.824	952.302	952.404	952.766	953.375
<b>10</b>	933.409	932.785	932.553	931.698	931.103	930.393	930.059	930.596	931.161
<b>15</b>	901.538	899.435	898.188	897.188	896.463	895.752	894.998	895.636	895.897
<b>20</b>	855.834	855.181	854.355	851.643	850.527	849.309	848.352	849.077	848.932
<b>25</b>	801.966	799.936	799.168	797.964	795.325	793.788	792.846	793.078	793.194
<b>30</b>	743.212	738.935	737.050	735.658	734.759	731.569	730.336	730.467	730.858
<b>35</b>	675.526	674.004	670.930	668.610	667.566	664.956	663.419	663.578	663.767
<b>40</b>	607.115	604.288	602.968	599.822	597.734	596.719	594.660	594.790	594.674
<b>45</b>	536.979	535.732	532.237	531.063	530.439	526.843	525.089	525.016	524.900
<b>50</b>	467.509	465.363	462.666	460.462	458.461	456.721	455.924	455.706	455.953
<b>55</b>	398.852	396.836	394.864	392.849	391.051	389.992	388.963	388.818	389.035
<b>60</b>	338.010	336.183	334.356	332.775	331.224	330.615	329.803	329.600	329.571
<b>65</b>	272.383	271.092	269.787	268.584	267.801	266.916	266.699	266.365	266.293
<b>70</b>	208.800	208.046	207.278	206.785	206.277	205.915	205.770	205.465	205.320
<b>75</b>	148.611	148.596	148.495	148.408	148.321	148.321	148.190	147.944	147.886
<b>80</b>	94.294	94.743	95.062	95.309	95.541	95.613	95.613	95.555	95.555
<b>85</b>	46.734	47.372	47.923	48.372	48.706	48.952	49.112	49.213	49.242
<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	343.79	N.A.	14.40
0-30	713.47	N.A.	29.80
0-40	1137.53	N.A.	47.50
0-60	1915.34	N.A.	80.00
0-80	2344.5	N.A.	97.90
0-90	2394.18	N.A.	100.00
10-90	2303.8	N.A.	96.20
20-40	793.74	N.A.	33.20
20-50	1210.82	N.A.	50.60
40-70	1049.21	N.A.	43.80
60-80	429.16	N.A.	17.90
70-80	157.76	N.A.	6.60
80-90	49.68	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	2394.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	90.38
10-20	253.41
20-30	369.68
30-40	424.06
40-50	417.08
50-60	360.72
60-70	271.41
70-80	157.76
80-90	49.68
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

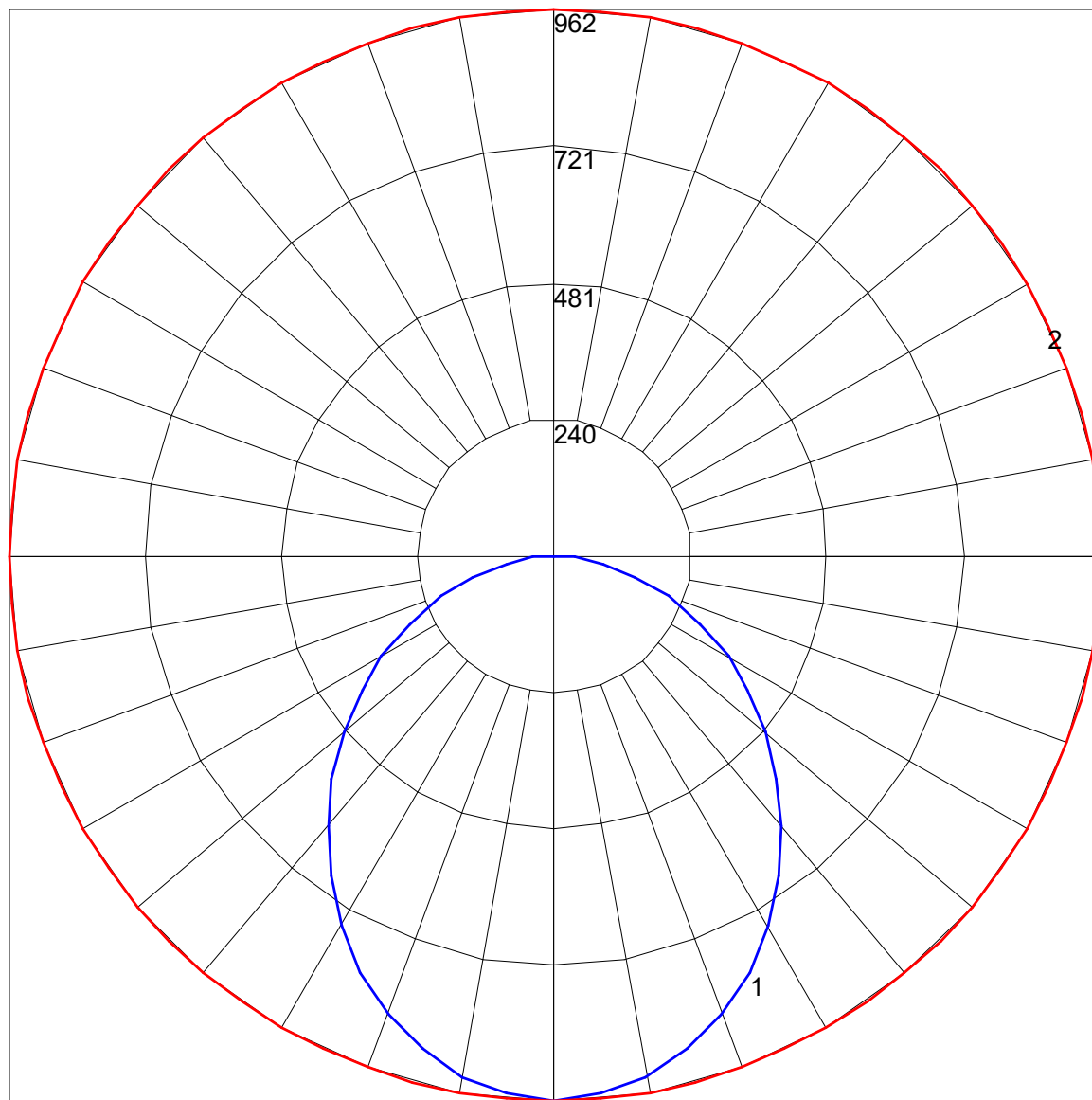
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 961.568 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.)