



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P53-LED35-MO-04-OPL-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P53-LED35-MO-04-OPL-D1

[TESTLAB] Intertek Lake Forest

[ISSUE DATE] June 8, 2016

[MANUFAC] Prudential Ltg

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2406
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)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.41 ft
Luminous Width (90-270)	3.92 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5257	5257	5257
55	4910	4910	4910
65	4499	4499	4499
75	3912	3912	3912
85	3269	3269	3269

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**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	928.098	928.098	928.098	928.098	928.098	928.098	928.098	928.098	928.098	928.098
<b>2.5</b>	926.600	926.600	926.600	926.600	926.600	926.600	926.600	926.600	926.600	926.600
<b>5.0</b>	922.212	922.212	922.212	922.212	922.212	922.212	922.212	922.212	922.212	922.212
<b>7.5</b>	914.743	914.743	914.743	914.743	914.743	914.743	914.743	914.743	914.743	914.743
<b>10.0</b>	904.646	904.646	904.646	904.646	904.646	904.646	904.646	904.646	904.646	904.646
<b>12.5</b>	891.057	891.057	891.057	891.057	891.057	891.057	891.057	891.057	891.057	891.057
<b>15.0</b>	875.487	875.487	875.487	875.487	875.487	875.487	875.487	875.487	875.487	875.487
<b>17.5</b>	857.197	857.197	857.197	857.197	857.197	857.197	857.197	857.197	857.197	857.197
<b>20.0</b>	836.685	836.685	836.685	836.685	836.685	836.685	836.685	836.685	836.685	836.685
<b>22.5</b>	814.725	814.725	814.725	814.725	814.725	814.725	814.725	814.725	814.725	814.725
<b>25.0</b>	789.981	789.981	789.981	789.981	789.981	789.981	789.981	789.981	789.981	789.981
<b>27.5</b>	763.640	763.640	763.640	763.640	763.640	763.640	763.640	763.640	763.640	763.640
<b>30.0</b>	735.894	735.894	735.894	735.894	735.894	735.894	735.894	735.894	735.894	735.894
<b>32.5</b>	707.132	707.132	707.132	707.132	707.132	707.132	707.132	707.132	707.132	707.132
<b>35.0</b>	677.219	677.219	677.219	677.219	677.219	677.219	677.219	677.219	677.219	677.219
<b>37.5</b>	646.043	646.043	646.043	646.043	646.043	646.043	646.043	646.043	646.043	646.043
<b>40.0</b>	615.421	615.421	615.421	615.421	615.421	615.421	615.421	615.421	615.421	615.421
<b>42.5</b>	582.647	582.647	582.647	582.647	582.647	582.647	582.647	582.647	582.647	582.647
<b>45.0</b>	550.016	550.016	550.016	550.016	550.016	550.016	550.016	550.016	550.016	550.016
<b>47.5</b>	517.349	517.349	517.349	517.349	517.349	517.349	517.349	517.349	517.349	517.349
<b>50.0</b>	483.631	483.631	483.631	483.631	483.631	483.631	483.631	483.631	483.631	483.631
<b>52.5</b>	450.367	450.367	450.367	450.367	450.367	450.367	450.367	450.367	450.367	450.367
<b>55.0</b>	416.685	416.685	416.685	416.685	416.685	416.685	416.685	416.685	416.685	416.685
<b>57.5</b>	383.173	383.173	383.173	383.173	383.173	383.173	383.173	383.173	383.173	383.173
<b>60.0</b>	348.858	348.858	348.858	348.858	348.858	348.858	348.858	348.858	348.858	348.858
<b>62.5</b>	314.807	314.807	314.807	314.807	314.807	314.807	314.807	314.807	314.807	314.807
<b>65.0</b>	281.323	281.323	281.323	281.323	281.323	281.323	281.323	281.323	281.323	281.323
<b>67.5</b>	247.747	247.747	247.747	247.747	247.747	247.747	247.747	247.747	247.747	247.747
<b>70.0</b>	214.356	214.356	214.356	214.356	214.356	214.356	214.356	214.356	214.356	214.356
<b>72.5</b>	181.618	181.618	181.618	181.618	181.618	181.618	181.618	181.618	181.618	181.618
<b>75.0</b>	149.824	149.824	149.824	149.824	149.824	149.824	149.824	149.824	149.824	149.824
<b>77.5</b>	120.423	120.423	120.423	120.423	120.423	120.423	120.423	120.423	120.423	120.423
<b>80.0</b>	91.512	91.512	91.512	91.512	91.512	91.512	91.512	91.512	91.512	91.512
<b>82.5</b>	65.533	65.533	65.533	65.533	65.533	65.533	65.533	65.533	65.533	65.533
<b>85.0</b>	42.153	42.153	42.153	42.153	42.153	42.153	42.153	42.153	42.153	42.153
<b>87.5</b>	22.152	22.152	22.152	22.152	22.152	22.152	22.152	22.152	22.152	22.152
<b>90.0</b>	6.433	6.433	6.433	6.433	6.433	6.433	6.433	6.433	6.433	6.433
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
0.0	928.098	928.098	928.098	928.098	928.098	928.098	928.098
2.5	926.600	926.600	926.600	926.600	926.600	926.600	926.600
5.0	922.212	922.212	922.212	922.212	922.212	922.212	922.212
7.5	914.743	914.743	914.743	914.743	914.743	914.743	914.743
10.0	904.646	904.646	904.646	904.646	904.646	904.646	904.646
12.5	891.057	891.057	891.057	891.057	891.057	891.057	891.057
15.0	875.487	875.487	875.487	875.487	875.487	875.487	875.487
17.5	857.197	857.197	857.197	857.197	857.197	857.197	857.197
20.0	836.685	836.685	836.685	836.685	836.685	836.685	836.685
22.5	814.725	814.725	814.725	814.725	814.725	814.725	814.725
25.0	789.981	789.981	789.981	789.981	789.981	789.981	789.981
27.5	763.640	763.640	763.640	763.640	763.640	763.640	763.640
30.0	735.894	735.894	735.894	735.894	735.894	735.894	735.894
32.5	707.132	707.132	707.132	707.132	707.132	707.132	707.132
35.0	677.219	677.219	677.219	677.219	677.219	677.219	677.219
37.5	646.043	646.043	646.043	646.043	646.043	646.043	646.043
40.0	615.421	615.421	615.421	615.421	615.421	615.421	615.421
42.5	582.647	582.647	582.647	582.647	582.647	582.647	582.647
45.0	550.016	550.016	550.016	550.016	550.016	550.016	550.016
47.5	517.349	517.349	517.349	517.349	517.349	517.349	517.349
50.0	483.631	483.631	483.631	483.631	483.631	483.631	483.631
52.5	450.367	450.367	450.367	450.367	450.367	450.367	450.367
55.0	416.685	416.685	416.685	416.685	416.685	416.685	416.685
57.5	383.173	383.173	383.173	383.173	383.173	383.173	383.173
60.0	348.858	348.858	348.858	348.858	348.858	348.858	348.858
62.5	314.807	314.807	314.807	314.807	314.807	314.807	314.807
65.0	281.323	281.323	281.323	281.323	281.323	281.323	281.323
67.5	247.747	247.747	247.747	247.747	247.747	247.747	247.747
70.0	214.356	214.356	214.356	214.356	214.356	214.356	214.356
72.5	181.618	181.618	181.618	181.618	181.618	181.618	181.618
75.0	149.824	149.824	149.824	149.824	149.824	149.824	149.824
77.5	120.423	120.423	120.423	120.423	120.423	120.423	120.423
80.0	91.512	91.512	91.512	91.512	91.512	91.512	91.512

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**CANDELA TABULATION - (Cont.)**

82.5	65.533	65.533	65.533	65.533	65.533	65.533	65.533
85.0	42.153	42.153	42.153	42.153	42.153	42.153	42.153
87.5	22.152	22.152	22.152	22.152	22.152	22.152	22.152
90.0	6.433	6.433	6.433	6.433	6.433	6.433	6.433
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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	334.12	N.A.	13.90
0-30	697.80	N.A.	29.00
0-40	1121.3	N.A.	46.60
0-60	1918.38	N.A.	79.70
0-80	2356.31	N.A.	97.90
0-90	2404.97	N.A.	100.00
10-90	2317.5	N.A.	96.30
20-40	787.17	N.A.	32.70
20-50	1211.64	N.A.	50.40
40-70	1075.53	N.A.	44.70
60-80	437.93	N.A.	18.20
70-80	159.48	N.A.	6.60
80-90	48.66	N.A.	2.00
90-110	0.88	N.A.	0.00
90-120	0.88	N.A.	0.00
90-130	0.88	N.A.	0.00
90-150	0.88	N.A.	0.00
90-180	0.88	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2405.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.47
10-20	246.66
20-30	363.67
30-40	423.50
40-50	424.47
50-60	372.62
60-70	278.45
70-80	159.48
80-90	48.66
90-100	0.88
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

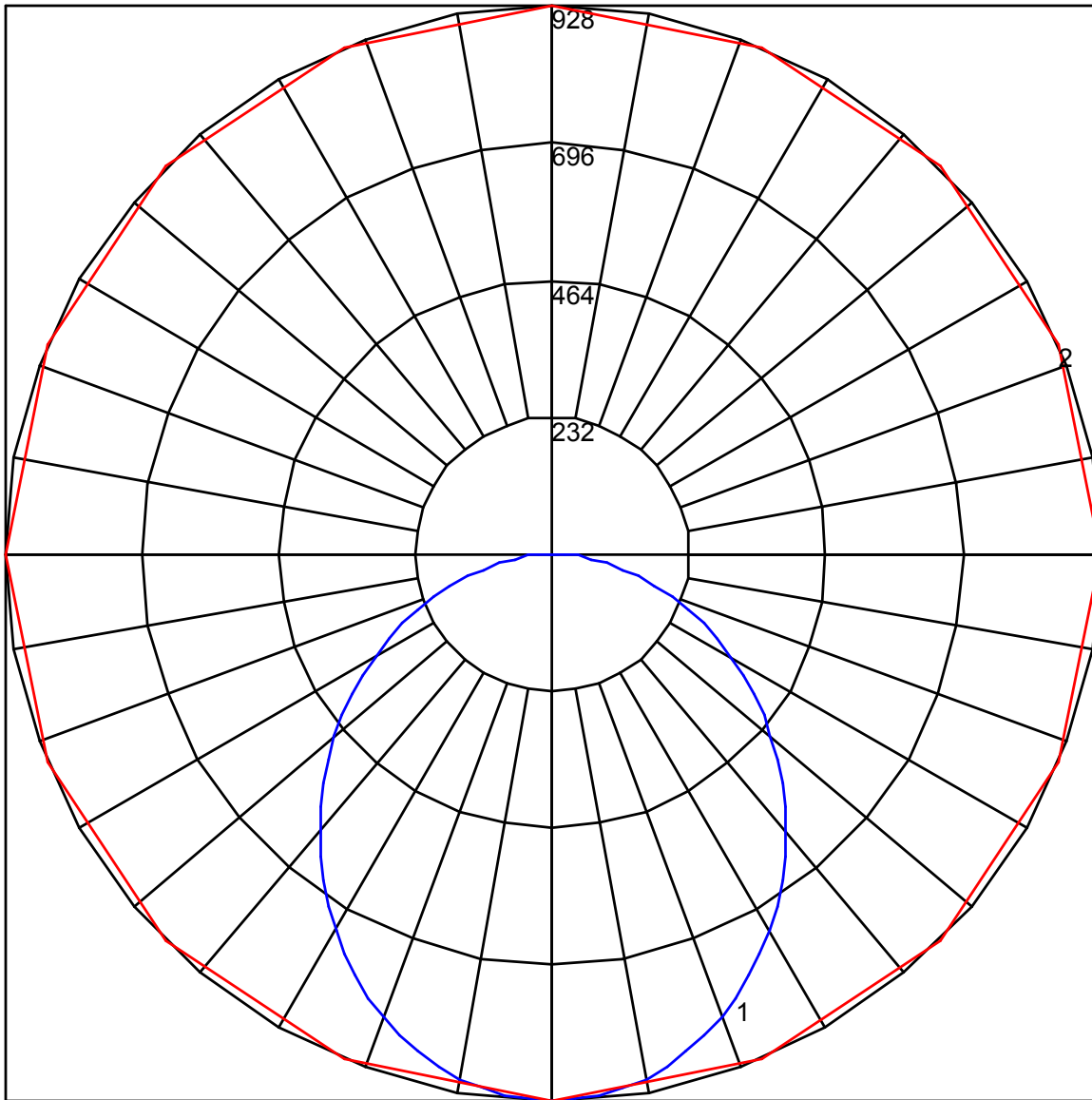
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 928.098 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.)