



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P53-LED35-LO-04-SAL-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P53-LED35-LO-04-SAL-D1

[TESTLAB] Intertek Lake Forest

[ISSUE DATE] April 8, 2016

[MANUFAC] Prudential Ltg

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1672
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.24
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	3621	3621	3621
55	3202	3202	3202
65	2789	2789	2789
75	2326	2326	2326
85	1772	1772	1772

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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>	729.792	729.792	729.792	729.792	729.792	729.792	729.792	729.792	729.792	729.792
<b>2.5</b>	728.453	728.453	728.453	728.453	728.453	728.453	728.453	728.453	728.453	728.453
<b>5.0</b>	724.157	724.157	724.157	724.157	724.157	724.157	724.157	724.157	724.157	724.157
<b>7.5</b>	717.326	717.326	717.326	717.326	717.326	717.326	717.326	717.326	717.326	717.326
<b>10.0</b>	706.886	706.886	706.886	706.886	706.886	706.886	706.886	706.886	706.886	706.886
<b>12.5</b>	694.166	694.166	694.166	694.166	694.166	694.166	694.166	694.166	694.166	694.166
<b>15.0</b>	679.406	679.406	679.406	679.406	679.406	679.406	679.406	679.406	679.406	679.406
<b>17.5</b>	661.915	661.915	661.915	661.915	661.915	661.915	661.915	661.915	661.915	661.915
<b>20.0</b>	642.115	642.115	642.115	642.115	642.115	642.115	642.115	642.115	642.115	642.115
<b>22.5</b>	620.376	620.376	620.376	620.376	620.376	620.376	620.376	620.376	620.376	620.376
<b>25.0</b>	596.520	596.520	596.520	596.520	596.520	596.520	596.520	596.520	596.520	596.520
<b>27.5</b>	571.786	571.786	571.786	571.786	571.786	571.786	571.786	571.786	571.786	571.786
<b>30.0</b>	545.914	545.914	545.914	545.914	545.914	545.914	545.914	545.914	545.914	545.914
<b>32.5</b>	518.789	518.789	518.789	518.789	518.789	518.789	518.789	518.789	518.789	518.789
<b>35.0</b>	491.789	491.789	491.789	491.789	491.789	491.789	491.789	491.789	491.789	491.789
<b>37.5</b>	463.603	463.603	463.603	463.603	463.603	463.603	463.603	463.603	463.603	463.603
<b>40.0</b>	435.182	435.182	435.182	435.182	435.182	435.182	435.182	435.182	435.182	435.182
<b>42.5</b>	406.858	406.858	406.858	406.858	406.858	406.858	406.858	406.858	406.858	406.858
<b>45.0</b>	378.845	378.845	378.845	378.845	378.845	378.845	378.845	378.845	378.845	378.845
<b>47.5</b>	351.379	351.379	351.379	351.379	351.379	351.379	351.379	351.379	351.379	351.379
<b>50.0</b>	324.048	324.048	324.048	324.048	324.048	324.048	324.048	324.048	324.048	324.048
<b>52.5</b>	297.595	297.595	297.595	297.595	297.595	297.595	297.595	297.595	297.595	297.595
<b>55.0</b>	271.714	271.714	271.714	271.714	271.714	271.714	271.714	271.714	271.714	271.714
<b>57.5</b>	246.336	246.336	246.336	246.336	246.336	246.336	246.336	246.336	246.336	246.336
<b>60.0</b>	221.659	221.659	221.659	221.659	221.659	221.659	221.659	221.659	221.659	221.659
<b>62.5</b>	197.669	197.669	197.669	197.669	197.669	197.669	197.669	197.669	197.669	197.669
<b>65.0</b>	174.398	174.398	174.398	174.398	174.398	174.398	174.398	174.398	174.398	174.398
<b>67.5</b>	152.011	152.011	152.011	152.011	152.011	152.011	152.011	152.011	152.011	152.011
<b>70.0</b>	130.128	130.128	130.128	130.128	130.128	130.128	130.128	130.128	130.128	130.128
<b>72.5</b>	109.075	109.075	109.075	109.075	109.075	109.075	109.075	109.075	109.075	109.075
<b>75.0</b>	89.088	89.088	89.088	89.088	89.088	89.088	89.088	89.088	89.088	89.088
<b>77.5</b>	70.373	70.373	70.373	70.373	70.373	70.373	70.373	70.373	70.373	70.373
<b>80.0</b>	52.814	52.814	52.814	52.814	52.814	52.814	52.814	52.814	52.814	52.814
<b>82.5</b>	36.946	36.946	36.946	36.946	36.946	36.946	36.946	36.946	36.946	36.946
<b>85.0</b>	22.853	22.853	22.853	22.853	22.853	22.853	22.853	22.853	22.853	22.853
<b>87.5</b>	11.021	11.021	11.021	11.021	11.021	11.021	11.021	11.021	11.021	11.021
<b>90.0</b>	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786
<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						
	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	729.792	729.792	729.792	729.792	729.792	729.792	729.792
2.5	728.453	728.453	728.453	728.453	728.453	728.453	728.453
5.0	724.157	724.157	724.157	724.157	724.157	724.157	724.157
7.5	717.326	717.326	717.326	717.326	717.326	717.326	717.326
10.0	706.886	706.886	706.886	706.886	706.886	706.886	706.886
12.5	694.166	694.166	694.166	694.166	694.166	694.166	694.166
15.0	679.406	679.406	679.406	679.406	679.406	679.406	679.406
17.5	661.915	661.915	661.915	661.915	661.915	661.915	661.915
20.0	642.115	642.115	642.115	642.115	642.115	642.115	642.115
22.5	620.376	620.376	620.376	620.376	620.376	620.376	620.376
25.0	596.520	596.520	596.520	596.520	596.520	596.520	596.520
27.5	571.786	571.786	571.786	571.786	571.786	571.786	571.786
30.0	545.914	545.914	545.914	545.914	545.914	545.914	545.914
32.5	518.789	518.789	518.789	518.789	518.789	518.789	518.789
35.0	491.789	491.789	491.789	491.789	491.789	491.789	491.789
37.5	463.603	463.603	463.603	463.603	463.603	463.603	463.603
40.0	435.182	435.182	435.182	435.182	435.182	435.182	435.182
42.5	406.858	406.858	406.858	406.858	406.858	406.858	406.858
45.0	378.845	378.845	378.845	378.845	378.845	378.845	378.845
47.5	351.379	351.379	351.379	351.379	351.379	351.379	351.379
50.0	324.048	324.048	324.048	324.048	324.048	324.048	324.048
52.5	297.595	297.595	297.595	297.595	297.595	297.595	297.595
55.0	271.714	271.714	271.714	271.714	271.714	271.714	271.714
57.5	246.336	246.336	246.336	246.336	246.336	246.336	246.336
60.0	221.659	221.659	221.659	221.659	221.659	221.659	221.659
62.5	197.669	197.669	197.669	197.669	197.669	197.669	197.669
65.0	174.398	174.398	174.398	174.398	174.398	174.398	174.398
67.5	152.011	152.011	152.011	152.011	152.011	152.011	152.011
70.0	130.128	130.128	130.128	130.128	130.128	130.128	130.128
72.5	109.075	109.075	109.075	109.075	109.075	109.075	109.075
75.0	89.088	89.088	89.088	89.088	89.088	89.088	89.088
77.5	70.373	70.373	70.373	70.373	70.373	70.373	70.373
80.0	52.814	52.814	52.814	52.814	52.814	52.814	52.814

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**CANDELA TABULATION - (Cont.)**

82.5	36.946	36.946	36.946	36.946	36.946	36.946	36.946
85.0	22.853	22.853	22.853	22.853	22.853	22.853	22.853
87.5	11.021	11.021	11.021	11.021	11.021	11.021	11.021
90.0	1.786	1.786	1.786	1.786	1.786	1.786	1.786
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	259.70	N.A.	15.50
0-30	534.11	N.A.	31.90
0-40	841.32	N.A.	50.30
0-60	1377.06	N.A.	82.40
0-80	1645.09	N.A.	98.40
0-90	1671.79	N.A.	100.00
10-90	1603.2	N.A.	95.90
20-40	581.62	N.A.	34.80
20-50	874.09	N.A.	52.30
40-70	708.86	N.A.	42.40
60-80	268.04	N.A.	16.00
70-80	94.91	N.A.	5.70
80-90	26.70	N.A.	1.60
90-110	0.24	N.A.	0.00
90-120	0.24	N.A.	0.00
90-130	0.24	N.A.	0.00
90-150	0.24	N.A.	0.00
90-180	0.24	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1672.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	68.59
10-20	191.11
20-30	274.41
30-40	307.21
40-50	292.48
50-60	243.26
60-70	173.12
70-80	94.91
80-90	26.70
90-100	0.24
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

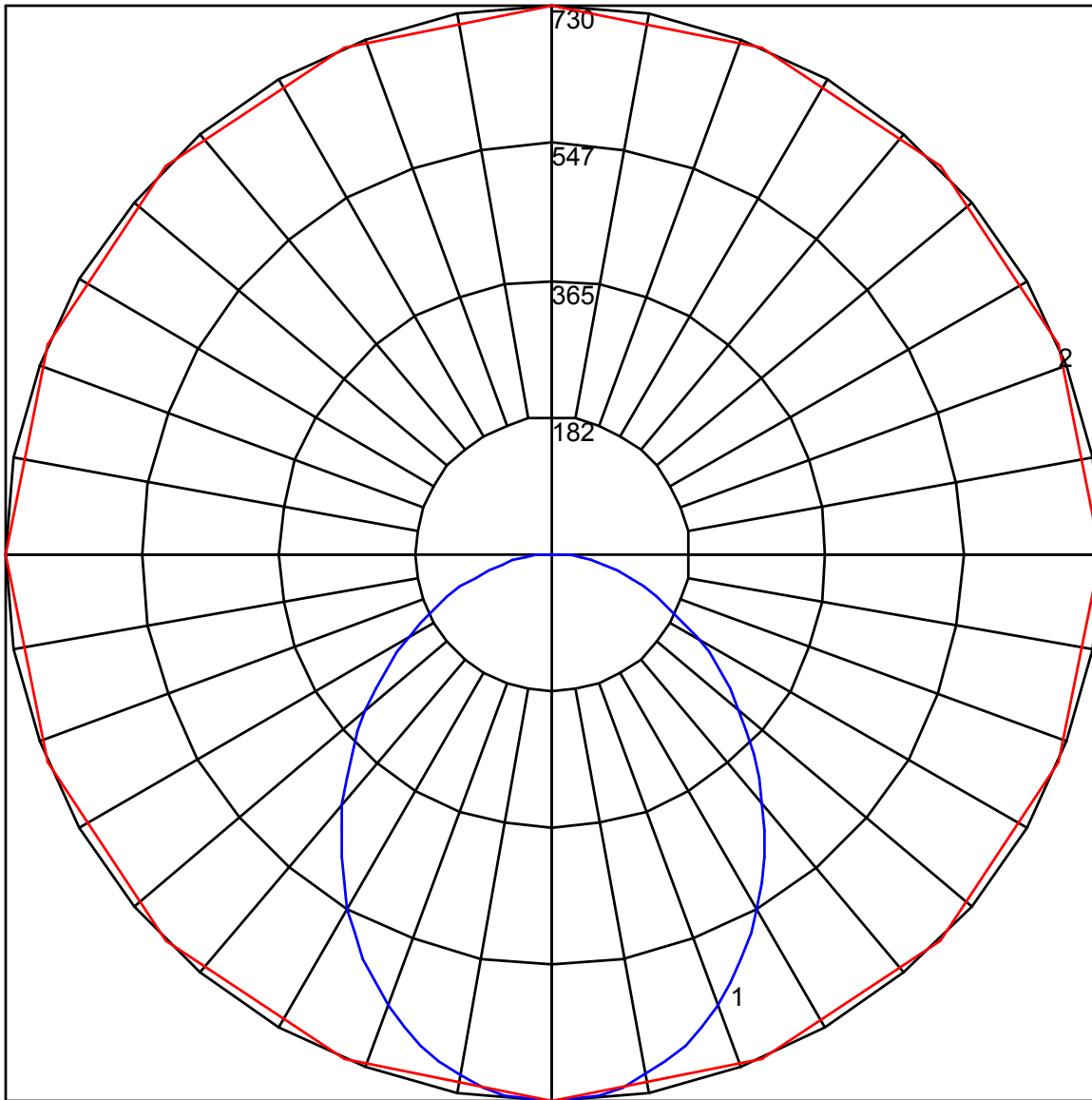
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 729.792 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.)