



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PCRL-LED35-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] PCRL-LED35-SO
 [TESTLAB] intertek
 [ISSUE DATE] 11-27-19
 [MANUFAC] prudential
 [_TOTAL LUMINAIRE LUMENS] 1653.4

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3307
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2565	1137	0
55	4150	2354	0
65	7597	4515	0
75	18295	10589	0
85	43371	26490	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5	31.0	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	38.2	26.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5	46.4	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.0	55.6	43.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5	65.2	53.4	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.0	75.8	64.2	26.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5	87.2	73.4	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	98.4	83.4	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5	110.6	94.0	45.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	123.4	105.0	54.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5	137.2	117.0	64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55.0	152.8	130.6	74.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5	171.8	147.0	84.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	194.4	167.2	96.4	21.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5	222.6	192.4	110.6	24.0	0.0	0.0	0.0	0.0	0.0	0.0
65.0	259.6	225.0	127.8	27.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5	310.0	268.8	149.0	30.6	0.0	0.0	0.0	0.0	0.0	0.0
70.0	376.0	326.2	176.6	35.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5	460.0	399.0	212.2	40.8	0.0	0.0	0.0	0.0	0.0	0.0
75.0	557.6	488.8	256.6	47.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5	675.4	596.8	310.4	55.8	0.0	0.0	0.0	0.0	0.0	0.0
80.0	813.4	722.8	375.6	66.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5	958.4	868.4	445.6	77.8	0.0	0.0	0.0	0.0	0.0	0.0
85.0	1121.6	1041.6	514.4	92.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	1274.6	1235.2	578.4	108.2	0.0	0.0	0.0	0.0	0.0	0.0
90.0	1444.0	1446.6	627.6	126.2	0.0	0.0	0.0	0.0	0.0	0.0
92.5	1622.6	1678.4	663.0	146.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	1835.0	1920.2	684.8	167.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	2120.6	2111.6	696.2	188.4	23.0	0.0	0.0	0.0	0.0	0.0
100.0	2421.4	2219.4	699.8	209.4	34.2	0.0	0.0	0.0	0.0	0.0
102.5	2709.0	2224.2	697.6	229.6	46.8	0.0	0.0	0.0	0.0	0.0
105.0	2834.8	2137.2	690.4	249.0	60.6	0.0	0.0	0.0	0.0	0.0
107.5	2793.0	2000.8	680.8	266.6	74.6	21.6	0.0	0.0	0.0	0.0
110.0	2627.4	1842.6	670.6	280.6	89.4	28.6	0.0	0.0	0.0	0.0
112.5	2424.0	1679.2	658.6	292.6	105.0	36.6	21.6	20.8	22.2	20.8
115.0	2179.4	1516.0	645.0	303.6	120.4	45.6	27.0	25.4	26.8	25.4
117.5	1955.6	1375.8	633.4	314.8	136.2	55.2	33.2	30.4	32.2	30.4
120.0	1771.0	1266.4	622.2	325.8	152.0	65.4	40.2	36.0	37.8	36.0
122.5	1602.4	1178.2	611.4	336.6	168.0	76.4	47.8	42.4	43.6	42.4
125.0	1460.2	1108.0	599.0	347.6	183.8	87.6	55.8	48.8	49.8	48.8
127.5	1345.8	1042.0	585.4	358.0	199.4	99.4	64.6	55.6	56.0	55.6
130.0	1238.2	975.6	570.0	368.0	215.0	111.8	73.8	63.0	63.0	63.0
132.5	1139.8	914.2	555.2	378.2	230.4	124.4	83.6	71.2	70.2	71.2

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CANDELA TABULATION - (Cont.)

135.0	1048.0	852.2	542.0	388.0	245.4	137.6	94.2	80.0	78.2	80.0
137.5	961.6	788.6	529.4	397.2	260.2	151.0	105.4	89.2	86.8	89.2
140.0	879.0	731.2	518.8	406.0	274.8	165.0	117.2	99.0	96.2	99.0
142.5	799.0	683.4	510.0	414.6	288.8	179.4	130.0	109.2	106.0	109.2
145.0	732.6	641.0	503.0	422.6	302.4	194.8	143.6	120.2	116.0	120.2
147.5	678.6	606.8	498.8	429.4	315.2	210.6	158.0	132.6	127.6	132.6
150.0	634.0	581.2	497.2	435.4	327.6	226.4	173.0	146.2	141.0	146.2
152.5	601.4	561.2	497.6	440.8	339.8	243.2	188.6	161.2	155.6	161.2
155.0	575.0	545.6	498.6	445.2	351.2	260.2	203.8	178.0	171.8	178.0
157.5	554.8	535.4	499.0	447.8	361.8	277.8	220.4	196.0	190.6	196.0
160.0	541.8	529.0	498.4	449.2	371.6	296.0	238.6	213.0	209.2	213.0
162.5	533.2	523.2	495.6	449.4	381.0	313.4	258.2	231.8	227.4	231.8
165.0	525.0	515.8	490.4	448.0	389.0	330.2	279.0	252.6	248.0	252.6
167.5	514.6	505.8	482.8	445.4	396.4	346.4	301.8	275.6	272.0	275.6
170.0	501.6	492.4	471.8	441.4	402.2	361.8	326.2	302.4	299.6	302.4
172.5	484.0	474.8	458.0	436.2	407.6	375.6	349.4	331.4	330.8	331.4
175.0	462.2	454.0	442.6	429.0	411.0	388.2	369.2	358.2	359.0	358.2
177.5	437.8	430.8	425.4	420.4	412.8	399.8	388.2	382.2	384.2	382.2
180.0	408.8	408.8	408.8	408.8	408.8	408.8	408.8	408.8	408.8	408.8

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8
27.5	0.0	0.0	0.0	0.0	0.0	20.6	31.0
30.0	0.0	0.0	0.0	0.0	0.0	26.6	38.2
32.5	0.0	0.0	0.0	0.0	0.0	34.4	46.4
35.0	0.0	0.0	0.0	0.0	0.0	43.2	55.6
37.5	0.0	0.0	0.0	0.0	22.4	53.4	65.2
40.0	0.0	0.0	0.0	0.0	26.6	64.2	75.8
42.5	0.0	0.0	0.0	0.0	31.6	73.4	87.2
45.0	0.0	0.0	0.0	0.0	38.4	83.4	98.4
47.5	0.0	0.0	0.0	0.0	45.8	94.0	110.6
50.0	0.0	0.0	0.0	0.0	54.4	105.0	123.4
52.5	0.0	0.0	0.0	0.0	64.0	117.0	137.2
55.0	0.0	0.0	0.0	0.0	74.2	130.6	152.8
57.5	0.0	0.0	0.0	0.0	84.4	147.0	171.8
60.0	0.0	0.0	0.0	21.0	96.4	167.2	194.4
62.5	0.0	0.0	0.0	24.0	110.6	192.4	222.6
65.0	0.0	0.0	0.0	27.2	127.8	225.0	259.6
67.5	0.0	0.0	0.0	30.6	149.0	268.8	310.0
70.0	0.0	0.0	0.0	35.4	176.6	326.2	376.0
72.5	0.0	0.0	0.0	40.8	212.2	399.0	460.0
75.0	0.0	0.0	0.0	47.6	256.6	488.8	557.6
77.5	0.0	0.0	0.0	55.8	310.4	596.8	675.4
80.0	0.0	0.0	0.0	66.0	375.6	722.8	813.4

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CANDELA TABULATION - (Cont.)

82.5	0.0	0.0	0.0	77.8	445.6	868.4	958.4
85.0	0.0	0.0	0.0	92.0	514.4	1041.6	1121.6
87.5	0.0	0.0	0.0	108.2	578.4	1235.2	1274.6
90.0	0.0	0.0	0.0	126.2	627.6	1446.6	1444.0
92.5	0.0	0.0	0.0	146.0	663.0	1678.4	1622.6
95.0	0.0	0.0	0.0	167.0	684.8	1920.2	1835.0
97.5	0.0	0.0	23.0	188.4	696.2	2111.6	2120.6
100.0	0.0	0.0	34.2	209.4	699.8	2219.4	2421.4
102.5	0.0	0.0	46.8	229.6	697.6	2224.2	2709.0
105.0	0.0	0.0	60.6	249.0	690.4	2137.2	2834.8
107.5	0.0	21.6	74.6	266.6	680.8	2000.8	2793.0
110.0	0.0	28.6	89.4	280.6	670.6	1842.6	2627.4
112.5	21.6	36.6	105.0	292.6	658.6	1679.2	2424.0
115.0	27.0	45.6	120.4	303.6	645.0	1516.0	2179.4
117.5	33.2	55.2	136.2	314.8	633.4	1375.8	1955.6
120.0	40.2	65.4	152.0	325.8	622.2	1266.4	1771.0
122.5	47.8	76.4	168.0	336.6	611.4	1178.2	1602.4
125.0	55.8	87.6	183.8	347.6	599.0	1108.0	1460.2
127.5	64.6	99.4	199.4	358.0	585.4	1042.0	1345.8
130.0	73.8	111.8	215.0	368.0	570.0	975.6	1238.2
132.5	83.6	124.4	230.4	378.2	555.2	914.2	1139.8
135.0	94.2	137.6	245.4	388.0	542.0	852.2	1048.0
137.5	105.4	151.0	260.2	397.2	529.4	788.6	961.6
140.0	117.2	165.0	274.8	406.0	518.8	731.2	879.0
142.5	130.0	179.4	288.8	414.6	510.0	683.4	799.0
145.0	143.6	194.8	302.4	422.6	503.0	641.0	732.6
147.5	158.0	210.6	315.2	429.4	498.8	606.8	678.6
150.0	173.0	226.4	327.6	435.4	497.2	581.2	634.0
152.5	188.6	243.2	339.8	440.8	497.6	561.2	601.4
155.0	203.8	260.2	351.2	445.2	498.6	545.6	575.0
157.5	220.4	277.8	361.8	447.8	499.0	535.4	554.8
160.0	238.6	296.0	371.6	449.2	498.4	529.0	541.8
162.5	258.2	313.4	381.0	449.4	495.6	523.2	533.2
165.0	279.0	330.2	389.0	448.0	490.4	515.8	525.0
167.5	301.8	346.4	396.4	445.4	482.8	505.8	514.6
170.0	326.2	361.8	402.2	441.4	471.8	492.4	501.6
172.5	349.4	375.6	407.6	436.2	458.0	474.8	484.0
175.0	369.2	388.2	411.0	429.0	442.6	454.0	462.2
177.5	388.2	399.8	412.8	420.4	425.4	430.8	437.8
180.0	408.8	408.8	408.8	408.8	408.8	408.8	408.8

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	1.13	N.A.	0.00
0-40	7.63	N.A.	0.20
0-60	56.83	N.A.	1.70
0-80	268.38	N.A.	8.10
0-90	571.56	N.A.	17.30
10-90	571.56	N.A.	17.30
20-40	7.63	N.A.	0.20
20-50	24.44	N.A.	0.70
40-70	114.78	N.A.	3.50
60-80	211.55	N.A.	6.40
70-80	145.97	N.A.	4.40
80-90	303.18	N.A.	9.20
90-110	1091.63	N.A.	33.00
90-120	1564.28	N.A.	47.30
90-130	1923.4	N.A.	58.20
90-150	2422.2	N.A.	73.20
90-180	2735.22	N.A.	82.70
110-180	1643.59	N.A.	49.70
0-180	3306.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	1.13
30-40	6.50
40-50	16.81
50-60	32.39
60-70	65.58
70-80	145.97
80-90	303.18
90-100	501.50
100-110	590.13
110-120	472.65
120-130	359.12
130-140	281.61
140-150	217.19
150-160	165.29
160-170	109.05
170-180	38.68

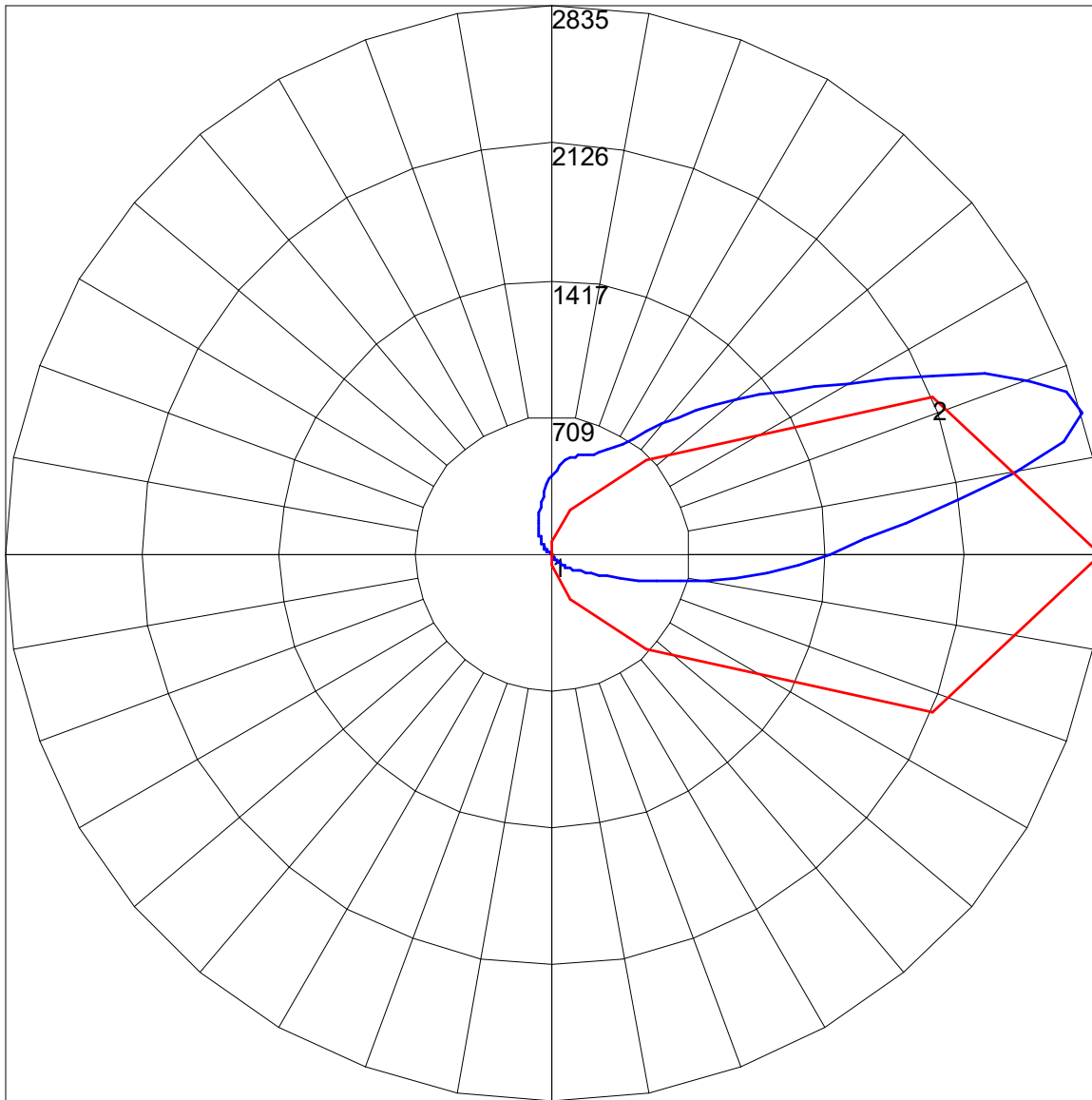
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	87	87	87	87	65	65	65	45	45	45	26	26	26	17
1	86	81	75	71	75	70	66	62	51	48	45	33	31	29	17	15	14	6
2	78	69	62	56	67	60	54	49	43	39	35	28	25	22	13	11	10	3
3	70	60	52	45	61	52	45	40	37	32	28	24	21	18	11	9	8	2
4	64	52	44	38	55	46	38	33	33	28	24	21	17	15	10	8	6	1
5	58	46	38	32	51	40	33	28	29	24	20	18	15	12	9	7	5	1
6	54	41	33	27	46	36	29	24	26	21	17	17	13	11	8	6	4	1
7	49	37	29	23	43	32	25	20	23	18	15	15	12	9	7	5	4	0
8	46	33	25	20	40	29	22	18	21	16	13	14	10	8	6	5	3	0
9	42	30	23	18	37	26	20	15	19	14	11	12	9	7	6	4	3	0
10	39	27	20	16	34	24	18	14	17	13	10	11	8	6	5	4	2	0

POLAR GRAPH



Maximum Candela = 2834.8 Located At Horizontal Angle = 0, Vertical Angle = 105
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)