



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PCRL-LED35-MO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] PCRL-LED35-MO
 [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	2530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	28
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	1963	870	0
55	3174	1801	0
65	5812	3454	0
75	13996	8101	0
85	33179	20265	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	18.972	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	23.715	15.759	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	29.223	20.349	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	35.496	26.316	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	42.534	33.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	49.878	40.851	17.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	57.987	49.113	20.349	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	66.708	56.151	24.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	75.276	63.801	29.376	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	84.609	71.910	35.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	94.401	80.325	41.616	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	104.958	89.505	48.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	116.892	99.909	56.763	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	131.427	112.455	64.566	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	148.716	127.908	73.746	16.065	0.000	0.000	0.000	0.000	0.000	0.000
62.5	170.289	147.186	84.609	18.360	0.000	0.000	0.000	0.000	0.000	0.000
65.0	198.594	172.125	97.767	20.808	0.000	0.000	0.000	0.000	0.000	0.000
67.5	237.150	205.632	113.985	23.409	0.000	0.000	0.000	0.000	0.000	0.000
70.0	287.640	249.543	135.099	27.081	0.000	0.000	0.000	0.000	0.000	0.000
72.5	351.900	305.235	162.333	31.212	0.000	0.000	0.000	0.000	0.000	0.000
75.0	426.564	373.932	196.299	36.414	0.000	0.000	0.000	0.000	0.000	0.000
77.5	516.681	456.552	237.456	42.687	0.000	0.000	0.000	0.000	0.000	0.000
80.0	622.251	552.942	287.334	50.490	0.000	0.000	0.000	0.000	0.000	0.000
82.5	733.176	664.326	340.884	59.517	0.000	0.000	0.000	0.000	0.000	0.000
85.0	858.024	796.824	393.516	70.380	0.000	0.000	0.000	0.000	0.000	0.000
87.5	975.069	944.928	442.476	82.773	0.000	0.000	0.000	0.000	0.000	0.000
90.0	1104.660	1106.649	480.114	96.543	0.000	0.000	0.000	0.000	0.000	0.000
92.5	1241.289	1283.976	507.195	111.690	0.000	0.000	0.000	0.000	0.000	0.000
95.0	1403.775	1468.953	523.872	127.755	0.000	0.000	0.000	0.000	0.000	0.000
97.5	1622.259	1615.374	532.593	144.126	17.595	0.000	0.000	0.000	0.000	0.000
100.0	1852.371	1697.841	535.347	160.191	26.163	0.000	0.000	0.000	0.000	0.000
102.5	2072.385	1701.513	533.664	175.644	35.802	0.000	0.000	0.000	0.000	0.000
105.0	2168.622	1634.958	528.156	190.485	46.359	0.000	0.000	0.000	0.000	0.000
107.5	2136.645	1530.612	520.812	203.949	57.069	16.524	0.000	0.000	0.000	0.000
110.0	2009.961	1409.589	513.009	214.659	68.391	21.879	0.000	0.000	0.000	0.000
112.5	1854.360	1284.588	503.829	223.839	80.325	27.999	16.524	15.912	16.983	15.912
115.0	1667.241	1159.740	493.425	232.254	92.106	34.884	20.655	19.431	20.502	19.431
117.5	1496.034	1052.487	484.551	240.822	104.193	42.228	25.398	23.256	24.633	23.256
120.0	1354.815	968.796	475.983	249.237	116.280	50.031	30.753	27.540	28.917	27.540
122.5	1225.836	901.323	467.721	257.499	128.520	58.446	36.567	32.436	33.354	32.436
125.0	1117.053	847.620	458.235	265.914	140.607	67.014	42.687	37.332	38.097	37.332
127.5	1029.537	797.130	447.831	273.870	152.541	76.041	49.419	42.534	42.840	42.534
130.0	947.223	746.334	436.050	281.520	164.475	85.527	56.457	48.195	48.195	48.195
132.5	871.947	699.363	424.728	289.323	176.256	95.166	63.954	54.468	53.703	54.468

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CANDELA TABULATION - (Cont.)

135.0	801.720	651.933	414.630	296.820	187.731	105.264	72.063	61.200	59.823	61.200
137.5	735.624	603.279	404.991	303.858	199.053	115.515	80.631	68.238	66.402	68.238
140.0	672.435	559.368	396.882	310.590	210.222	126.225	89.658	75.735	73.593	75.735
142.5	611.235	522.801	390.150	317.169	220.932	137.241	99.450	83.538	81.090	83.538
145.0	560.439	490.365	384.795	323.289	231.336	149.022	109.854	91.953	88.740	91.953
147.5	519.129	464.202	381.582	328.491	241.128	161.109	120.870	101.439	97.614	101.439
150.0	485.010	444.618	380.358	333.081	250.614	173.196	132.345	111.843	107.865	111.843
152.5	460.071	429.318	380.664	337.212	259.947	186.048	144.279	123.318	119.034	123.318
155.0	439.875	417.384	381.429	340.578	268.668	199.053	155.907	136.170	131.427	136.170
157.5	424.422	409.581	381.735	342.567	276.777	212.517	168.606	149.940	145.809	149.940
160.0	414.477	404.685	381.276	343.638	284.274	226.440	182.529	162.945	160.038	162.945
162.5	407.898	400.248	379.134	343.791	291.465	239.751	197.523	177.327	173.961	177.327
165.0	401.625	394.587	375.156	342.720	297.585	252.603	213.435	193.239	189.720	193.239
167.5	393.669	386.937	369.342	340.731	303.246	264.996	230.877	210.834	208.080	210.834
170.0	383.724	376.686	360.927	337.671	307.683	276.777	249.543	231.336	229.194	231.336
172.5	370.260	363.222	350.370	333.693	311.814	287.334	267.291	253.521	253.062	253.521
175.0	353.583	347.310	338.589	328.185	314.415	296.973	282.438	274.023	274.635	274.023
177.5	334.917	329.562	325.431	321.606	315.792	305.847	296.973	292.383	293.913	292.383
180.0	312.732	312.732	312.732	312.732	312.732	312.732	312.732	312.732	312.732	312.732

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	18.972
27.5	0.000	0.000	0.000	0.000	0.000	15.759	23.715
30.0	0.000	0.000	0.000	0.000	0.000	20.349	29.223
32.5	0.000	0.000	0.000	0.000	0.000	26.316	35.496
35.0	0.000	0.000	0.000	0.000	0.000	33.048	42.534
37.5	0.000	0.000	0.000	0.000	17.136	40.851	49.878
40.0	0.000	0.000	0.000	0.000	20.349	49.113	57.987
42.5	0.000	0.000	0.000	0.000	24.174	56.151	66.708
45.0	0.000	0.000	0.000	0.000	29.376	63.801	75.276
47.5	0.000	0.000	0.000	0.000	35.037	71.910	84.609
50.0	0.000	0.000	0.000	0.000	41.616	80.325	94.401
52.5	0.000	0.000	0.000	0.000	48.960	89.505	104.958
55.0	0.000	0.000	0.000	0.000	56.763	99.909	116.892
57.5	0.000	0.000	0.000	0.000	64.566	112.455	131.427
60.0	0.000	0.000	0.000	16.065	73.746	127.908	148.716
62.5	0.000	0.000	0.000	18.360	84.609	147.186	170.289
65.0	0.000	0.000	0.000	20.808	97.767	172.125	198.594
67.5	0.000	0.000	0.000	23.409	113.985	205.632	237.150
70.0	0.000	0.000	0.000	27.081	135.099	249.543	287.640
72.5	0.000	0.000	0.000	31.212	162.333	305.235	351.900
75.0	0.000	0.000	0.000	36.414	196.299	373.932	426.564
77.5	0.000	0.000	0.000	42.687	237.456	456.552	516.681
80.0	0.000	0.000	0.000	50.490	287.334	552.942	622.251

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CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	0.000	59.517	340.884	664.326	733.176
85.0	0.000	0.000	0.000	70.380	393.516	796.824	858.024
87.5	0.000	0.000	0.000	82.773	442.476	944.928	975.069
90.0	0.000	0.000	0.000	96.543	480.114	1106.649	1104.660
92.5	0.000	0.000	0.000	111.690	507.195	1283.976	1241.289
95.0	0.000	0.000	0.000	127.755	523.872	1468.953	1403.775
97.5	0.000	0.000	17.595	144.126	532.593	1615.374	1622.259
100.0	0.000	0.000	26.163	160.191	535.347	1697.841	1852.371
102.5	0.000	0.000	35.802	175.644	533.664	1701.513	2072.385
105.0	0.000	0.000	46.359	190.485	528.156	1634.958	2168.622
107.5	0.000	16.524	57.069	203.949	520.812	1530.612	2136.645
110.0	0.000	21.879	68.391	214.659	513.009	1409.589	2009.961
112.5	16.524	27.999	80.325	223.839	503.829	1284.588	1854.360
115.0	20.655	34.884	92.106	232.254	493.425	1159.740	1667.241
117.5	25.398	42.228	104.193	240.822	484.551	1052.487	1496.034
120.0	30.753	50.031	116.280	249.237	475.983	968.796	1354.815
122.5	36.567	58.446	128.520	257.499	467.721	901.323	1225.836
125.0	42.687	67.014	140.607	265.914	458.235	847.620	1117.053
127.5	49.419	76.041	152.541	273.870	447.831	797.130	1029.537
130.0	56.457	85.527	164.475	281.520	436.050	746.334	947.223
132.5	63.954	95.166	176.256	289.323	424.728	699.363	871.947
135.0	72.063	105.264	187.731	296.820	414.630	651.933	801.720
137.5	80.631	115.515	199.053	303.858	404.991	603.279	735.624
140.0	89.658	126.225	210.222	310.590	396.882	559.368	672.435
142.5	99.450	137.241	220.932	317.169	390.150	522.801	611.235
145.0	109.854	149.022	231.336	323.289	384.795	490.365	560.439
147.5	120.870	161.109	241.128	328.491	381.582	464.202	519.129
150.0	132.345	173.196	250.614	333.081	380.358	444.618	485.010
152.5	144.279	186.048	259.947	337.212	380.664	429.318	460.071
155.0	155.907	199.053	268.668	340.578	381.429	417.384	439.875
157.5	168.606	212.517	276.777	342.567	381.735	409.581	424.422
160.0	182.529	226.440	284.274	343.638	381.276	404.685	414.477
162.5	197.523	239.751	291.465	343.791	379.134	400.248	407.898
165.0	213.435	252.603	297.585	342.720	375.156	394.587	401.625
167.5	230.877	264.996	303.246	340.731	369.342	386.937	393.669
170.0	249.543	276.777	307.683	337.671	360.927	376.686	383.724
172.5	267.291	287.334	311.814	333.693	350.370	363.222	370.260
175.0	282.438	296.973	314.415	328.185	338.589	347.310	353.583
177.5	296.973	305.847	315.792	321.606	325.431	329.562	334.917
180.0	312.732	312.732	312.732	312.732	312.732	312.732	312.732

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.86	N.A.	0.00
0-40	5.84	N.A.	0.20
0-60	43.48	N.A.	1.70
0-80	205.31	N.A.	8.10
0-90	437.25	N.A.	17.30
10-90	437.25	N.A.	17.30
20-40	5.84	N.A.	0.20
20-50	18.70	N.A.	0.70
40-70	87.81	N.A.	3.50
60-80	161.83	N.A.	6.40
70-80	111.67	N.A.	4.40
80-90	231.94	N.A.	9.20
90-110	835.10	N.A.	33.00
90-120	1196.68	N.A.	47.30
90-130	1471.4	N.A.	58.20
90-150	1852.98	N.A.	73.20
90-180	2092.45	N.A.	82.70
110-180	1257.35	N.A.	49.70
0-180	2529.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.86
30-40	4.97
40-50	12.86
50-60	24.78
60-70	50.17
70-80	111.67
80-90	231.94
90-100	383.65
100-110	451.45
110-120	361.58
120-130	274.73
130-140	215.43
140-150	166.15
150-160	126.45
160-170	83.42
170-180	29.59

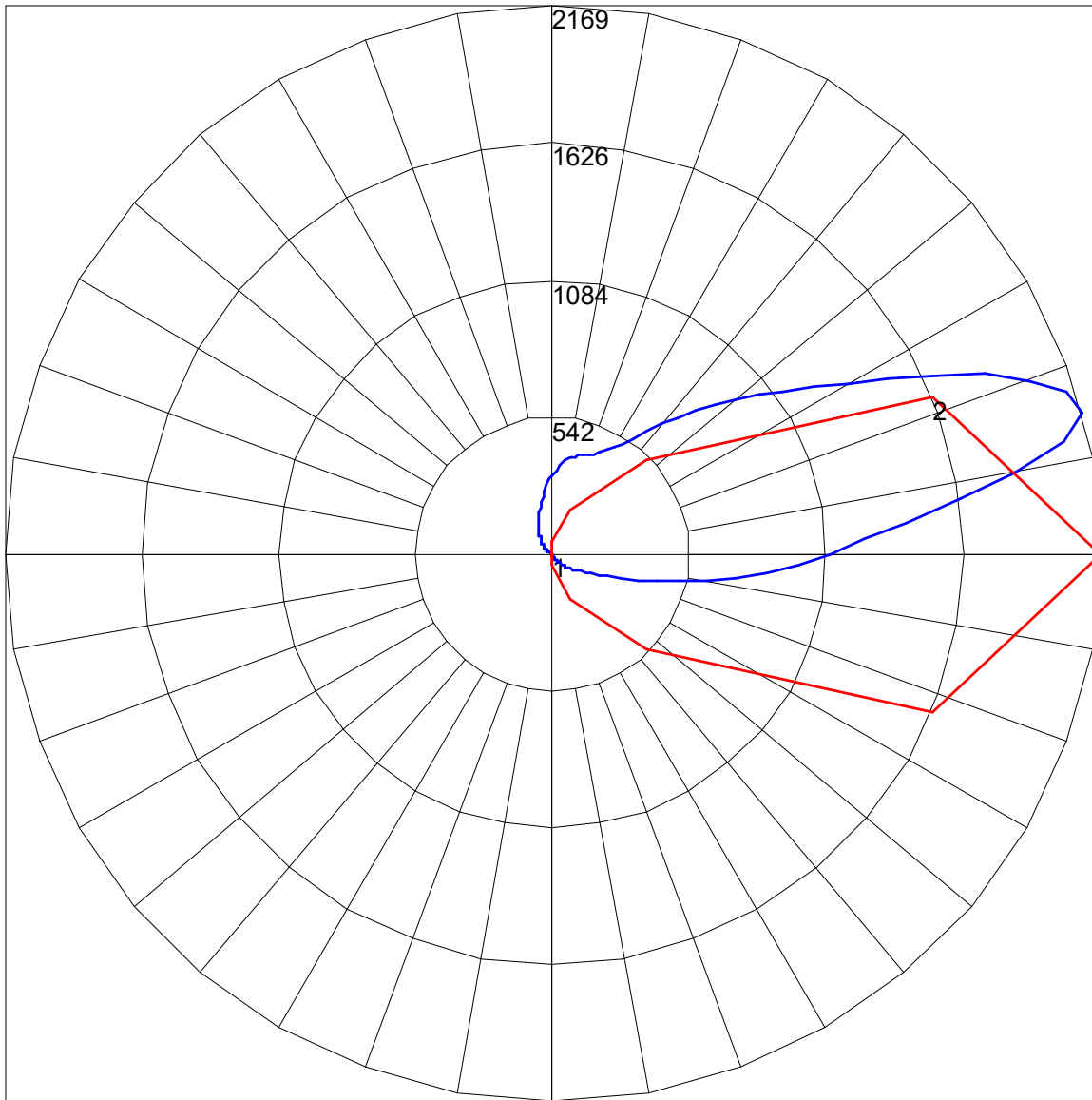
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2168.622 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.)