



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P3950-LED35-LO-FWA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P3950-LED35-LO-FWA -D9

[TESTLAB] Intertek

[ISSUE DATE] November 28, 2017

[MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13641
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	133
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	5.00 ft (Diameter)
Luminous Width (90-270)	5.00 ft (Diameter)
Luminous Height	0.50 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1618	1615	1610
55	1487	1478	1471
65	1307	1295	1279
75	1039	1024	995
85	536	521	486

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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	3577.574	3577.574	3577.574	3577.574	3577.574	3577.574	3577.574	3577.574	3577.574	3577.574
2.5	3570.756	3572.226	3572.870	3574.074	3574.928	3574.074	3572.870	3572.226	3570.756	3572.226
5.0	3554.642	3559.052	3558.030	3559.990	3561.992	3559.990	3558.030	3559.052	3554.642	3559.052
7.5	3535.840	3537.688	3537.310	3537.702	3539.130	3537.702	3537.310	3537.688	3535.840	3537.688
10.0	3501.722	3507.084	3505.810	3506.300	3504.424	3506.300	3505.810	3507.084	3501.722	3507.084
12.5	3465.588	3467.100	3466.820	3466.484	3466.540	3466.484	3466.820	3467.100	3465.588	3467.100
15.0	3419.290	3421.460	3421.348	3420.298	3417.582	3420.298	3421.348	3421.460	3419.290	3421.460
17.5	3366.832	3368.246	3367.140	3367.490	3365.110	3367.490	3367.140	3368.246	3366.832	3368.246
20.0	3306.688	3309.096	3306.478	3306.016	3303.566	3306.016	3306.478	3309.096	3306.688	3309.096
22.5	3238.214	3241.630	3239.222	3238.690	3235.176	3238.690	3239.222	3241.630	3238.214	3241.630
25.0	3163.174	3166.772	3164.952	3163.622	3162.740	3163.622	3164.952	3166.772	3163.174	3166.772
27.5	3085.614	3087.084	3084.704	3083.654	3082.282	3083.654	3084.704	3087.084	3085.614	3087.084
30.0	2994.124	3000.270	2996.056	2996.252	2992.836	2996.252	2996.056	3000.270	2994.124	3000.270
32.5	2899.302	2906.848	2904.538	2902.578	2899.288	2902.578	2904.538	2906.848	2899.302	2906.848
35.0	2803.864	2808.638	2804.536	2801.946	2798.908	2801.946	2804.536	2808.638	2803.864	2808.638
37.5	2702.994	2702.896	2699.900	2697.604	2693.194	2697.604	2699.900	2702.896	2702.994	2702.896
40.0	2594.452	2592.632	2588.642	2584.540	2581.264	2584.540	2588.642	2592.632	2594.452	2592.632
42.5	2478.672	2477.062	2473.268	2468.130	2466.660	2468.130	2473.268	2477.062	2478.672	2477.062
45.0	2355.402	2355.528	2351.202	2346.918	2343.866	2346.918	2351.202	2355.528	2355.402	2355.528
47.5	2229.150	2231.054	2225.090	2221.828	2218.454	2221.828	2225.090	2231.054	2229.150	2231.054
50.0	2103.304	2102.730	2095.590	2091.278	2088.744	2091.278	2095.590	2102.730	2103.304	2102.730
52.5	1975.246	1971.452	1964.648	1958.306	1954.764	1958.306	1964.648	1971.452	1975.246	1971.452
55.0	1841.000	1837.598	1829.674	1822.226	1820.770	1822.226	1829.674	1837.598	1841.000	1837.598
57.5	1703.240	1699.278	1692.600	1684.774	1682.240	1684.774	1692.600	1699.278	1703.240	1699.278
60.0	1561.938	1560.258	1553.972	1545.040	1541.008	1545.040	1553.972	1560.258	1561.938	1560.258
62.5	1423.310	1420.902	1413.734	1403.094	1399.440	1403.094	1413.734	1420.902	1423.310	1420.902
65.0	1283.912	1279.810	1272.054	1260.896	1256.752	1260.896	1272.054	1279.810	1283.912	1279.810
67.5	1146.236	1138.718	1131.340	1118.376	1113.714	1118.376	1131.340	1138.718	1146.236	1138.718
70.0	1002.344	998.760	991.942	977.158	972.188	977.158	991.942	998.760	1002.344	998.760
72.5	862.484	859.320	852.390	836.262	830.102	836.262	852.390	859.320	862.484	859.320
75.0	724.612	722.638	713.692	698.908	693.616	698.908	713.692	722.638	724.612	722.638
77.5	592.144	588.056	580.888	565.110	561.218	565.110	580.888	588.056	592.144	588.056
80.0	462.140	455.336	449.176	435.330	431.480	435.330	449.176	455.336	462.140	455.336
82.5	332.164	328.608	323.820	310.478	306.110	310.478	323.820	328.608	332.164	328.608
85.0	209.524	207.060	203.714	192.598	189.938	192.598	203.714	207.060	209.524	207.060
87.5	95.928	96.390	98.938	103.684	110.628	103.684	98.938	96.390	95.928	96.390
90.0	16.044	56.504	97.860	114.464	111.160	114.464	97.860	56.504	16.044	56.504
92.5	29.624	76.468	141.288	187.754	199.542	187.754	141.288	76.468	29.624	76.468
95.0	59.010	97.356	166.390	221.032	239.064	221.032	166.390	97.356	59.010	97.356
97.5	91.224	121.646	191.800	248.766	267.820	248.766	191.800	121.646	91.224	121.646
100.0	119.980	148.806	219.506	277.172	296.800	277.172	219.506	148.806	119.980	148.806
102.5	157.038	178.584	248.304	307.356	329.462	307.356	248.304	178.584	157.038	178.584
105.0	189.308	211.554	278.768	338.702	359.492	338.702	278.768	211.554	189.308	211.554
107.5	225.512	244.706	311.178	370.622	391.328	370.622	311.178	244.706	225.512	244.706
110.0	266.490	282.044	345.954	404.376	424.984	404.376	345.954	282.044	266.490	282.044
112.5	303.506	322.028	379.386	437.668	459.550	437.668	379.386	322.028	303.506	322.028
115.0	344.904	360.248	415.310	474.222	495.348	474.222	415.310	360.248	344.904	360.248
117.5	389.102	400.204	453.866	511.056	531.146	511.056	453.866	400.204	389.102	400.204
120.0	427.014	444.416	495.264	548.716	569.268	548.716	495.264	444.416	427.014	444.416
122.5	467.614	490.616	535.990	587.538	608.734	587.538	535.990	490.616	467.614	490.616
125.0	515.732	533.064	577.864	626.430	646.114	626.430	577.864	533.064	515.732	533.064
127.5	559.930	572.614	621.978	665.924	684.936	665.924	621.978	572.614	559.930	572.614
130.0	606.242	612.458	667.044	705.796	723.674	705.796	667.044	612.458	606.242	612.458
132.5	643.118	655.830	711.158	746.298	764.106	746.298	711.158	655.830	643.118	655.830

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CANDELA TABULATION - (Cont.)

135.0	685.804	700.868	750.680	783.790	801.150	783.790	750.680	700.868	685.804	700.868
137.5	729.708	746.494	788.634	822.024	838.236	822.024	788.634	746.494	729.708	746.494
140.0	774.200	791.196	823.928	858.550	873.236	858.550	823.928	791.196	774.200	791.196
142.5	820.232	833.098	860.160	893.354	906.556	893.354	860.160	833.098	820.232	833.098
145.0	861.630	872.186	894.908	926.828	939.694	926.828	894.908	872.186	861.630	872.186
147.5	896.518	906.612	928.886	957.096	968.548	957.096	928.886	906.612	896.518	906.612
150.0	931.868	937.496	961.884	987.560	996.030	987.560	961.884	937.496	931.868	937.496
152.5	962.346	969.220	992.194	1014.454	1022.784	1014.454	992.194	969.220	962.346	969.220
155.0	992.124	1000.244	1019.690	1039.738	1045.898	1039.738	1019.690	1000.244	992.124	1000.244
157.5	1023.078	1030.162	1046.318	1062.460	1068.242	1062.460	1046.318	1030.162	1023.078	1030.162
160.0	1050.658	1055.866	1070.090	1083.572	1088.192	1083.572	1070.090	1055.866	1050.658	1055.866
162.5	1075.914	1079.820	1092.042	1102.458	1105.804	1102.458	1092.042	1079.820	1075.914	1079.820
165.0	1098.678	1101.002	1110.550	1117.970	1120.448	1117.970	1110.550	1101.002	1098.678	1101.002
167.5	1118.250	1119.734	1126.384	1132.124	1133.986	1132.124	1126.384	1119.734	1118.250	1119.734
170.0	1133.720	1135.414	1139.726	1143.982	1144.724	1143.982	1139.726	1135.414	1133.720	1135.414
172.5	1146.390	1148.168	1150.156	1153.964	1153.250	1153.964	1150.156	1148.168	1146.390	1148.168
175.0	1154.748	1156.428	1158.122	1159.466	1159.564	1159.466	1158.122	1156.428	1154.748	1156.428
177.5	1160.824	1161.902	1162.028	1163.540	1162.756	1163.540	1162.028	1161.902	1160.824	1161.902
180.0	1163.414	1163.414	1163.414	1163.414	1163.414	1163.414	1163.414	1163.414	1163.414	1163.414

**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	3577.574	3577.574	3577.574	3577.574	3577.574	3577.574	3577.574
2.5	3572.870	3574.074	3574.928	3574.074	3572.870	3572.226	3570.756
5.0	3558.030	3559.990	3561.992	3559.990	3558.030	3559.052	3554.642
7.5	3537.310	3537.702	3539.130	3537.702	3537.310	3537.688	3535.840
10.0	3505.810	3506.300	3504.424	3506.300	3505.810	3507.084	3501.722
12.5	3466.820	3466.484	3466.540	3466.484	3466.820	3467.100	3465.588
15.0	3421.348	3420.298	3417.582	3420.298	3421.348	3421.460	3419.290
17.5	3367.140	3367.490	3365.110	3367.490	3367.140	3368.246	3366.832
20.0	3306.478	3306.016	3303.566	3306.016	3306.478	3309.096	3306.688
22.5	3239.222	3238.690	3235.176	3238.690	3239.222	3241.630	3238.214
25.0	3164.952	3163.622	3162.740	3163.622	3164.952	3166.772	3163.174
27.5	3084.704	3083.654	3082.282	3083.654	3084.704	3087.084	3085.614
30.0	2996.056	2996.252	2992.836	2996.252	2996.056	3000.270	2994.124
32.5	2904.538	2902.578	2899.288	2902.578	2904.538	2906.848	2899.302
35.0	2804.536	2801.946	2798.908	2801.946	2804.536	2808.638	2803.864
37.5	2699.900	2697.604	2693.194	2697.604	2699.900	2702.896	2702.994
40.0	2588.642	2584.540	2581.264	2584.540	2588.642	2592.632	2594.452
42.5	2473.268	2468.130	2466.660	2468.130	2473.268	2477.062	2478.672
45.0	2351.202	2346.918	2343.866	2346.918	2351.202	2355.528	2355.402
47.5	2225.090	2221.828	2218.454	2221.828	2225.090	2231.054	2229.150
50.0	2095.590	2091.278	2088.744	2091.278	2095.590	2102.730	2103.304
52.5	1964.648	1958.306	1954.764	1958.306	1964.648	1971.452	1975.246
55.0	1829.674	1822.226	1820.770	1822.226	1829.674	1837.598	1841.000
57.5	1692.600	1684.774	1682.240	1684.774	1692.600	1699.278	1703.240
60.0	1553.972	1545.040	1541.008	1545.040	1553.972	1560.258	1561.938
62.5	1413.734	1403.094	1399.440	1403.094	1413.734	1420.902	1423.310
65.0	1272.054	1260.896	1256.752	1260.896	1272.054	1279.810	1283.912
67.5	1131.340	1118.376	1113.714	1118.376	1131.340	1138.718	1146.236
70.0	991.942	977.158	972.188	977.158	991.942	998.760	1002.344
72.5	852.390	836.262	830.102	836.262	852.390	859.320	862.484
75.0	713.692	698.908	693.616	698.908	713.692	722.638	724.612
77.5	580.888	565.110	561.218	565.110	580.888	588.056	592.144
80.0	449.176	435.330	431.480	435.330	449.176	455.336	462.140

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CANDELA TABULATION - (Cont.)

82.5	323.820	310.478	306.110	310.478	323.820	328.608	332.164
85.0	203.714	192.598	189.938	192.598	203.714	207.060	209.524
87.5	98.938	103.684	110.628	103.684	98.938	96.390	95.928
90.0	97.860	114.464	111.160	114.464	97.860	56.504	16.044
92.5	141.288	187.754	199.542	187.754	141.288	76.468	29.624
95.0	166.390	221.032	239.064	221.032	166.390	97.356	59.010
97.5	191.800	248.766	267.820	248.766	191.800	121.646	91.224
100.0	219.506	277.172	296.800	277.172	219.506	148.806	119.980
102.5	248.304	307.356	329.462	307.356	248.304	178.584	157.038
105.0	278.768	338.702	359.492	338.702	278.768	211.554	189.308
107.5	311.178	370.622	391.328	370.622	311.178	244.706	225.512
110.0	345.954	404.376	424.984	404.376	345.954	282.044	266.490
112.5	379.386	437.668	459.550	437.668	379.386	322.028	303.506
115.0	415.310	474.222	495.348	474.222	415.310	360.248	344.904
117.5	453.866	511.056	531.146	511.056	453.866	400.204	389.102
120.0	495.264	548.716	569.268	548.716	495.264	444.416	427.014
122.5	535.990	587.538	608.734	587.538	535.990	490.616	467.614
125.0	577.864	626.430	646.114	626.430	577.864	533.064	515.732
127.5	621.978	665.924	684.936	665.924	621.978	572.614	559.930
130.0	667.044	705.796	723.674	705.796	667.044	612.458	606.242
132.5	711.158	746.298	764.106	746.298	711.158	655.830	643.118
135.0	750.680	783.790	801.150	783.790	750.680	700.868	685.804
137.5	788.634	822.024	838.236	822.024	788.634	746.494	729.708
140.0	823.928	858.550	873.236	858.550	823.928	791.196	774.200
142.5	860.160	893.354	906.556	893.354	860.160	833.098	820.232
145.0	894.908	926.828	939.694	926.828	894.908	872.186	861.630
147.5	928.886	957.096	968.548	957.096	928.886	906.612	896.518
150.0	961.884	987.560	996.030	987.560	961.884	937.496	931.868
152.5	992.194	1014.454	1022.784	1014.454	992.194	969.220	962.346
155.0	1019.690	1039.738	1045.898	1039.738	1019.690	1000.244	992.124
157.5	1046.318	1062.460	1068.242	1062.460	1046.318	1030.162	1023.078
160.0	1070.090	1083.572	1088.192	1083.572	1070.090	1055.866	1050.658
162.5	1092.042	1102.458	1105.804	1102.458	1092.042	1079.820	1075.914
165.0	1110.550	1117.970	1120.448	1117.970	1110.550	1101.002	1098.678
167.5	1126.384	1132.124	1133.986	1132.124	1126.384	1119.734	1118.250
170.0	1139.726	1143.982	1144.724	1143.982	1139.726	1135.414	1133.720
172.5	1150.156	1153.964	1153.250	1153.964	1150.156	1148.168	1146.390
175.0	1158.122	1159.466	1159.564	1159.466	1158.122	1156.428	1154.748
177.5	1162.028	1163.540	1162.756	1163.540	1162.028	1161.902	1160.824
180.0	1163.414	1163.414	1163.414	1163.414	1163.414	1163.414	1163.414

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1303.26	N.A.	9.60
0-30	2761.73	N.A.	20.20
0-40	4515.62	N.A.	33.10
0-60	7964.02	N.A.	58.40
0-80	9974.92	N.A.	73.10
0-90	10216.27	N.A.	74.90
10-90	9878.2	N.A.	72.40
20-40	3212.37	N.A.	23.50
20-50	5025.45	N.A.	36.80
40-70	4706.3	N.A.	34.50
60-80	2010.9	N.A.	14.70
70-80	753.00	N.A.	5.50
80-90	241.34	N.A.	1.80
90-110	462.08	N.A.	3.40
90-120	876.66	N.A.	6.40
90-130	1395.14	N.A.	10.20
90-150	2531.43	N.A.	18.60
90-180	3424.43	N.A.	25.10
110-180	2962.35	N.A.	21.70
0-180	13640.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	338.06
10-20	965.19
20-30	1458.47
30-40	1753.89
40-50	1813.09
50-60	1635.31
60-70	1257.9
70-80	753.00
80-90	241.34
90-100	169.56
100-110	292.53
110-120	414.58
120-130	518.48
130-140	574.80
140-150	561.49
150-160	469.99
160-170	313.06
170-180	109.95

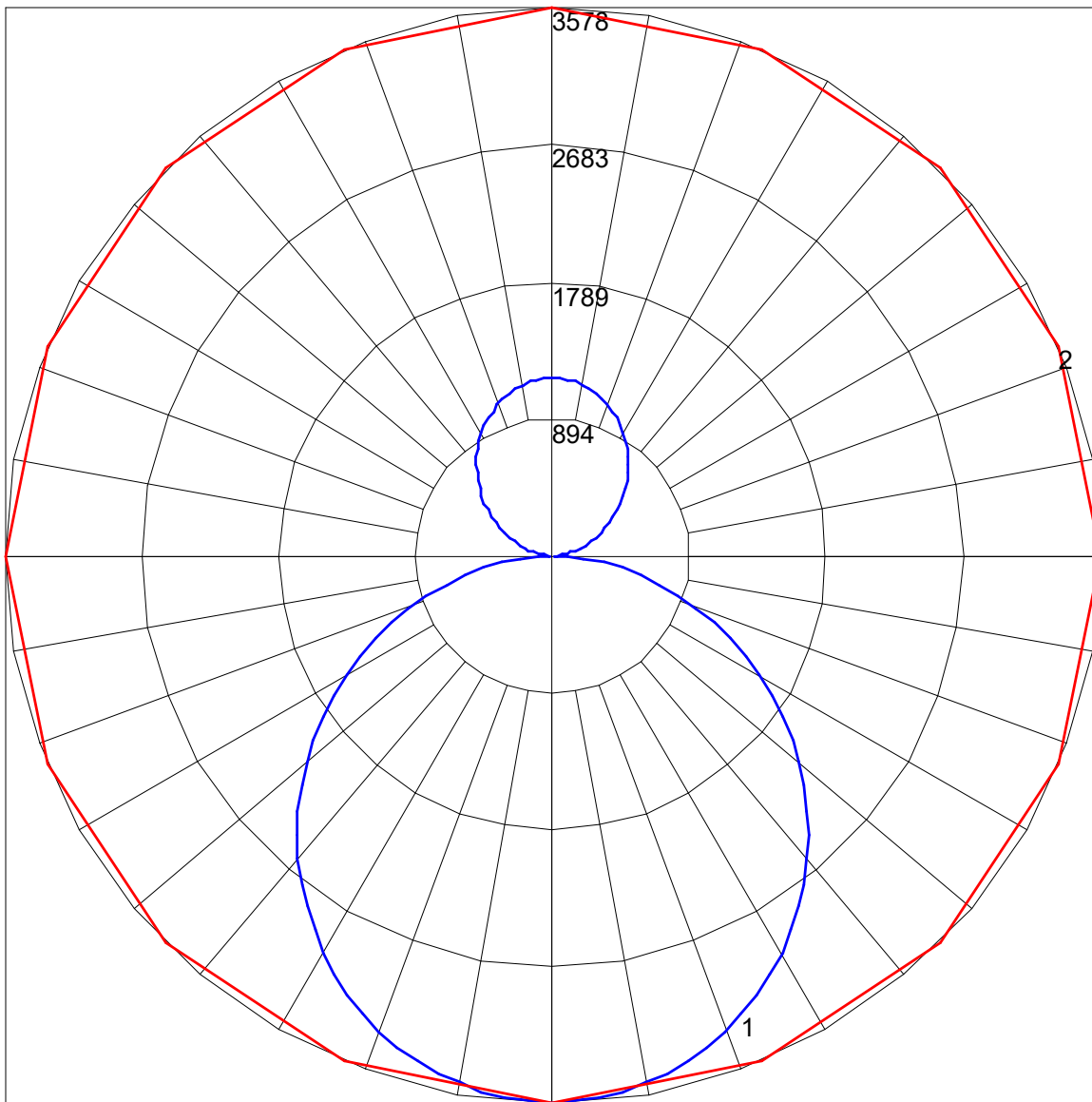
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	98	94	90	98	94	90	86	85	82	79	77	74	72	69	68	66	62
2	94	86	79	73	89	82	76	71	74	69	65	67	63	60	61	58	55	52
3	85	75	67	61	81	72	64	59	65	59	54	59	54	50	53	50	47	43
4	78	66	58	51	74	63	56	50	58	51	46	52	47	43	48	43	40	37
5	72	59	50	44	68	57	49	43	52	45	40	47	42	37	43	38	35	32
6	66	53	44	38	62	51	43	37	47	40	35	42	37	33	39	34	30	28
7	61	48	40	34	58	46	38	33	42	36	31	39	33	29	35	31	27	25
8	57	44	35	30	54	42	34	29	39	32	27	35	30	26	32	28	24	22
9	53	40	32	27	50	38	31	26	35	29	25	33	27	23	30	25	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

POLAR GRAPH



Maximum Candela = 3577.574 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.)