



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P61-LED35-HO-PCL-D4W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] P61-LED35-HO-PCL-D4W
 [TESTLAB] INTERTEK
 [ISSUE DATE] 5-13-19
 [MANUFAC] PRUDENTIAL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3945
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19229	16340	12934
55	21389	17154	8692
65	2946	17738	7722
75	2439	2646	6177
85	1691	1612	1333

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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	1699.575	1699.575	1699.575	1699.575	1699.575	1699.575	1699.575	1699.575	1699.575	1699.575
2.5	1738.705	1735.480	1718.280	1703.660	1683.880	1683.235	1672.700	1672.700	1664.315	1672.700
5.0	1766.440	1753.970	1727.525	1701.940	1674.635	1662.165	1639.805	1632.280	1623.035	1632.280
7.5	1795.250	1772.245	1739.135	1706.455	1667.970	1646.470	1608.415	1590.140	1577.670	1590.140
10.0	1830.940	1798.045	1751.390	1706.240	1660.445	1628.625	1572.725	1540.905	1524.995	1540.905
12.5	1874.585	1832.660	1767.515	1710.325	1651.415	1606.695	1537.465	1487.155	1389.760	1487.155
15.0	1853.515	1853.085	1787.940	1700.220	1629.485	1577.670	1497.475	1079.945	493.210	1079.945
17.5	1825.135	1815.245	1797.185	1683.880	1602.180	1538.540	1395.780	582.435	457.735	582.435
20.0	1822.125	1792.670	1785.145	1667.970	1577.885	1503.495	981.045	450.210	448.490	450.210
22.5	1814.600	1782.565	1756.980	1656.360	1554.450	1468.235	899.345	441.610	442.470	441.610
25.0	1798.260	1765.150	1730.535	1648.620	1527.360	1426.955	649.945	433.225	436.665	433.225
27.5	1790.305	1745.370	1691.835	1623.465	1485.435	1381.160	431.075	425.700	431.935	425.700
30.0	1780.630	1729.030	1661.735	1597.020	1449.100	1279.250	413.015	418.605	427.420	418.605
32.5	1767.085	1711.185	1627.550	1563.050	1409.540	993.085	401.190	411.510	420.325	411.510
35.0	1752.250	1690.975	1594.870	1508.870	1367.185	845.595	390.440	404.200	416.885	404.200
37.5	1745.370	1669.905	1558.750	1451.465	1316.660	795.500	380.765	397.750	408.715	397.750
40.0	1721.290	1641.525	1515.965	1401.155	1271.510	759.810	369.585	389.365	399.470	389.365
42.5	1710.110	1612.715	1477.050	1354.285	1220.555	720.465	357.975	379.475	385.925	379.475
45.0	1685.815	1581.540	1432.545	1302.685	1133.910	677.465	347.225	365.500	368.940	365.500
47.5	1653.565	1554.235	1384.600	1248.075	937.400	636.830	334.755	349.160	349.590	349.160
50.0	1617.015	1512.740	1334.290	1186.370	756.370	590.820	319.490	329.380	328.520	329.380
52.5	1573.585	1457.055	1283.335	1127.460	672.090	544.165	302.935	307.880	305.515	307.880
55.0	1521.125	1404.810	1219.910	1058.015	618.125	482.460	283.585	284.015	279.500	284.015
57.5	1466.730	1340.095	1160.570	971.800	566.310	314.545	262.515	258.000	255.635	258.000
60.0	1398.790	1267.640	1088.545	875.050	513.850	231.770	239.725	232.415	231.770	232.415
62.5	747.985	1196.475	1011.790	788.835	457.950	208.980	213.925	207.260	207.475	207.260
65.0	154.370	629.520	929.445	701.330	404.630	185.115	187.480	182.320	183.825	182.320
67.5	137.385	137.170	837.210	618.340	354.535	160.175	161.465	158.455	161.680	158.455
70.0	121.045	113.735	486.330	523.525	304.225	136.095	134.375	136.310	145.770	136.310
72.5	101.480	96.965	349.375	437.740	251.550	113.305	110.295	118.680	120.185	118.680
75.0	78.260	76.755	84.925	348.515	198.230	88.795	89.225	95.460	93.095	95.460
77.5	56.330	55.255	59.340	264.020	148.780	65.575	70.520	71.595	71.165	71.595
80.0	45.580	39.560	41.280	95.890	101.695	45.580	52.460	50.955	51.385	50.955
82.5	35.690	31.605	26.445	56.975	58.265	31.820	33.540	35.475	36.120	35.475
85.0	18.275	16.985	17.415	22.145	14.405	15.265	19.135	19.565	17.200	19.565
87.5	4.945	4.515	6.235	6.665	6.235	6.450	7.310	7.095	7.095	7.095
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	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	0.000	0.000	0.000
97.5	0.000	0.000	0.000	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	0.000	0.000	0.000
102.5	0.000	0.000	0.000	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	0.000	0.000	0.000
107.5	0.000	0.000	0.000	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	0.000	0.000	0.000
112.5	0.000	0.000	0.000	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	0.000	0.000	0.000
117.5	0.000	0.000	0.000	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	0.000	0.000	0.000
122.5	0.000	0.000	0.000	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	0.000	0.000	0.000
127.5	0.000	0.000	0.000	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	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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. 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	1699.575	1699.575	1699.575	1699.575	1699.575	1699.575	1699.575
2.5	1672.700	1683.235	1683.880	1703.660	1718.280	1735.480	1738.705
5.0	1639.805	1662.165	1674.635	1701.940	1727.525	1753.970	1766.440
7.5	1608.415	1646.470	1667.970	1706.455	1739.135	1772.245	1795.250
10.0	1572.725	1628.625	1660.445	1706.240	1751.390	1798.045	1830.940
12.5	1537.465	1606.695	1651.415	1710.325	1767.515	1832.660	1874.585
15.0	1497.475	1577.670	1629.485	1700.220	1787.940	1853.085	1853.515
17.5	1395.780	1538.540	1602.180	1683.880	1797.185	1815.245	1825.135
20.0	981.045	1503.495	1577.885	1667.970	1785.145	1792.670	1822.125
22.5	899.345	1468.235	1554.450	1656.360	1756.980	1782.565	1814.600
25.0	649.945	1426.955	1527.360	1648.620	1730.535	1765.150	1798.260
27.5	431.075	1381.160	1485.435	1623.465	1691.835	1745.370	1790.305
30.0	413.015	1279.250	1449.100	1597.020	1661.735	1729.030	1780.630
32.5	401.190	993.085	1409.540	1563.050	1627.550	1711.185	1767.085
35.0	390.440	845.595	1367.185	1508.870	1594.870	1690.975	1752.250
37.5	380.765	795.500	1316.660	1451.465	1558.750	1669.905	1745.370
40.0	369.585	759.810	1271.510	1401.155	1515.965	1641.525	1721.290
42.5	357.975	720.465	1220.555	1354.285	1477.050	1612.715	1710.110
45.0	347.225	677.465	1133.910	1302.685	1432.545	1581.540	1685.815
47.5	334.755	636.830	937.400	1248.075	1384.600	1554.235	1653.565
50.0	319.490	590.820	756.370	1186.370	1334.290	1512.740	1617.015
52.5	302.935	544.165	672.090	1127.460	1283.335	1457.055	1573.585
55.0	283.585	482.460	618.125	1058.015	1219.910	1404.810	1521.125
57.5	262.515	314.545	566.310	971.800	1160.570	1340.095	1466.730
60.0	239.725	231.770	513.850	875.050	1088.545	1267.640	1398.790
62.5	213.925	208.980	457.950	788.835	1011.790	1196.475	747.985
65.0	187.480	185.115	404.630	701.330	929.445	629.520	154.370
67.5	161.465	160.175	354.535	618.340	837.210	137.170	137.385
70.0	134.375	136.095	304.225	523.525	486.330	113.735	121.045
72.5	110.295	113.305	251.550	437.740	349.375	96.965	101.480
75.0	89.225	88.795	198.230	348.515	84.925	76.755	78.260
77.5	70.520	65.575	148.780	264.020	59.340	55.255	56.330
80.0	52.460	45.580	101.695	95.890	41.280	39.560	45.580

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CANDELA TABULATION - (Cont.)

82.5	33.540	31.820	58.265	56.975	26.445	31.605	35.690
85.0	19.135	15.265	14.405	22.145	17.415	16.985	18.275
87.5	7.310	6.450	6.235	6.665	6.235	4.515	4.945
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	591.14	N.A.	15.00
0-30	1184.09	N.A.	30.00
0-40	1884.58	N.A.	47.80
0-60	3329.7	N.A.	84.40
0-80	3919.53	N.A.	99.40
0-90	3944.71	N.A.	100.00
10-90	3784.32	N.A.	95.90
20-40	1293.45	N.A.	32.80
20-50	2046.44	N.A.	51.90
40-70	1881.06	N.A.	47.70
60-80	589.82	N.A.	15.00
70-80	153.88	N.A.	3.90
80-90	25.19	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3944.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.39
10-20	430.75
20-30	592.96
30-40	700.49
40-50	752.99
50-60	692.12
60-70	435.94
70-80	153.88
80-90	25.19
90-100	0.00
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

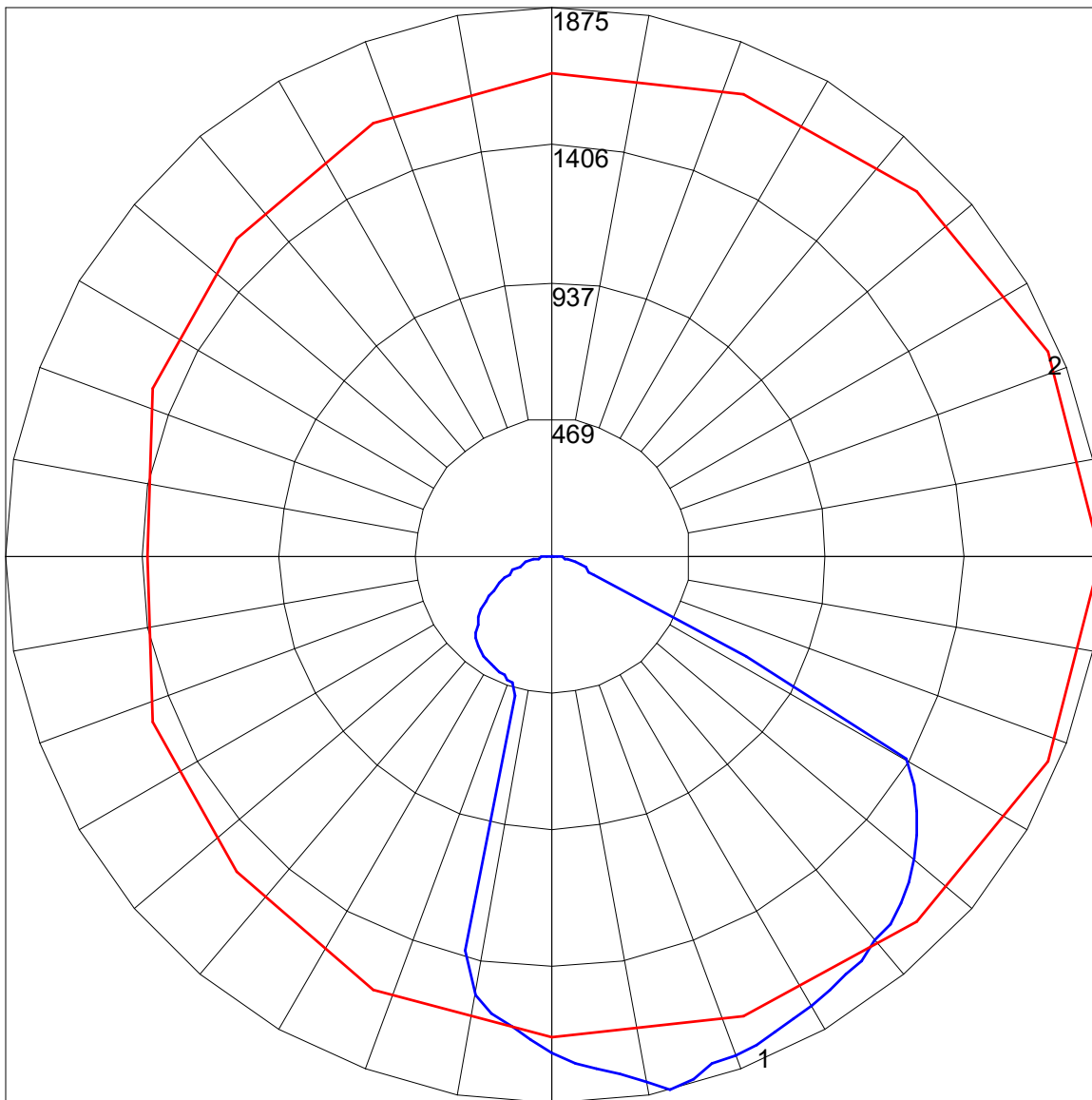
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	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	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1874.585 Located At Horizontal Angle = 0, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)