



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BPRO4-FLSH-LED35-VHO-4-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BPRO4-FLSH-LED35-VHO-4-TMW-SAL-SC-UNV-X1-DM01
 [TESTLAB] INTERTEK
 [ISSUE DATE] 7-19-19
 [MANUFAC] PRUDENTIAL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5072
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.29 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	15176	15290	15743
55	14395	14577	15110
65	13404	13645	14315
75	11959	12325	13325
85	7732	8806	11014

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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	1825.313	1825.313	1825.313	1825.313	1825.313	1825.313	1825.313	1825.313	1825.313	1825.313
2.5	1823.280	1823.387	1816.325	1825.206	1824.029	1824.992	1818.572	1826.062	1826.704	1826.062
5.0	1812.687	1813.971	1807.979	1816.967	1817.395	1818.358	1812.259	1818.572	1822.424	1818.572
7.5	1797.386	1799.740	1795.781	1805.411	1806.374	1808.086	1799.954	1805.518	1808.621	1805.518
10.0	1778.768	1781.443	1778.982	1789.468	1790.859	1791.608	1782.085	1787.970	1791.715	1787.970
12.5	1756.726	1759.294	1757.047	1768.710	1770.208	1770.850	1761.113	1767.105	1769.566	1767.105
15.0	1730.725	1732.865	1730.939	1742.923	1744.956	1744.635	1736.503	1741.639	1743.244	1741.639
17.5	1700.016	1701.193	1699.588	1712.856	1715.638	1716.066	1707.720	1711.893	1713.712	1711.893
20.0	1663.743	1665.241	1664.278	1679.793	1682.575	1683.966	1674.550	1678.402	1679.793	1678.402
22.5	1622.655	1625.651	1625.437	1642.450	1646.516	1647.907	1637.742	1640.845	1641.701	1640.845
25.0	1577.822	1581.032	1583.172	1601.469	1607.247	1607.675	1597.189	1598.580	1599.757	1598.580
27.5	1530.635	1533.203	1537.804	1557.599	1563.698	1563.698	1553.212	1552.570	1554.068	1552.570
30.0	1477.242	1483.234	1489.440	1510.519	1517.046	1516.939	1504.099	1503.243	1504.634	1503.243
32.5	1425.454	1431.874	1438.401	1460.550	1467.398	1466.970	1453.381	1451.241	1452.525	1451.241
35.0	1375.485	1378.481	1385.650	1407.478	1414.968	1413.791	1400.844	1398.383	1399.239	1398.383
37.5	1320.701	1321.985	1330.010	1351.624	1359.970	1358.472	1346.488	1344.348	1342.743	1344.348
40.0	1261.102	1262.921	1271.481	1293.416	1302.939	1301.655	1290.741	1287.424	1283.679	1287.424
42.5	1200.326	1201.824	1211.026	1233.175	1243.875	1242.377	1231.142	1226.969	1223.545	1226.969
45.0	1139.978	1139.229	1148.538	1169.938	1182.564	1179.568	1169.510	1164.802	1162.341	1164.802
47.5	1075.350	1074.922	1084.980	1105.524	1119.755	1115.582	1106.594	1101.351	1098.355	1101.351
50.0	1006.977	1009.973	1020.245	1040.147	1054.699	1050.098	1041.966	1036.616	1032.871	1036.616
52.5	942.242	944.382	954.868	973.486	987.931	983.758	975.091	970.276	967.173	970.276
55.0	877.079	877.293	888.207	905.755	920.628	915.385	907.788	903.829	900.940	903.829
57.5	807.208	808.599	819.941	837.275	852.576	846.370	840.592	836.419	833.423	836.419
60.0	736.588	740.012	750.712	767.404	782.919	777.141	771.256	767.511	763.873	767.511
62.5	670.034	671.425	681.697	697.533	712.085	707.805	702.241	698.282	695.500	698.282
65.0	601.768	602.303	612.575	627.662	642.642	638.362	634.296	630.123	627.555	630.123
67.5	531.148	533.716	543.881	558.326	573.627	569.240	566.244	561.857	559.289	561.857
70.0	463.417	465.985	475.187	489.418	503.756	500.439	497.015	493.270	490.167	493.270
72.5	397.291	397.933	406.493	420.617	434.420	431.638	428.321	425.218	422.115	425.218
75.0	328.811	329.988	338.869	352.458	366.368	363.158	361.339	358.343	355.561	358.343
77.5	261.080	263.434	273.064	285.690	298.744	296.176	294.678	291.789	288.365	291.789
80.0	196.024	198.485	207.794	219.992	231.334	230.371	227.910	224.914	221.490	224.914
82.5	132.787	134.178	143.166	155.899	165.315	165.743	162.961	159.644	156.220	159.644
85.0	71.583	72.760	81.534	94.374	101.971	103.362	100.687	97.156	93.946	97.156
87.5	20.116	20.651	26.964	37.664	43.121	45.368	42.907	40.339	37.771	40.339
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. 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	1825.313	1825.313	1825.313	1825.313	1825.313	1825.313	1825.313
2.5	1818.572	1824.992	1824.029	1825.206	1816.325	1823.387	1823.280
5.0	1812.259	1818.358	1817.395	1816.967	1807.979	1813.971	1812.687
7.5	1799.954	1808.086	1806.374	1805.411	1795.781	1799.740	1797.386
10.0	1782.085	1791.608	1790.859	1789.468	1778.982	1781.443	1778.768
12.5	1761.113	1770.850	1770.208	1768.710	1757.047	1759.294	1756.726
15.0	1736.503	1744.635	1744.956	1742.923	1730.939	1732.865	1730.725
17.5	1707.720	1716.066	1715.638	1712.856	1699.588	1701.193	1700.016
20.0	1674.550	1683.966	1682.575	1679.793	1664.278	1665.241	1663.743
22.5	1637.742	1647.907	1646.516	1642.450	1625.437	1625.651	1622.655
25.0	1597.189	1607.675	1607.247	1601.469	1583.172	1581.032	1577.822
27.5	1553.212	1563.698	1563.698	1557.599	1537.804	1533.203	1530.635
30.0	1504.099	1516.939	1517.046	1510.519	1489.440	1483.234	1477.242
32.5	1453.381	1466.970	1467.398	1460.550	1438.401	1431.874	1425.454
35.0	1400.844	1413.791	1414.968	1407.478	1385.650	1378.481	1375.485
37.5	1346.488	1358.472	1359.970	1351.624	1330.010	1321.985	1320.701
40.0	1290.741	1301.655	1302.939	1293.416	1271.481	1262.921	1261.102
42.5	1231.142	1242.377	1243.875	1233.175	1211.026	1201.824	1200.326
45.0	1169.510	1179.568	1182.564	1169.938	1148.538	1139.229	1139.978
47.5	1106.594	1115.582	1119.755	1105.524	1084.980	1074.922	1075.350
50.0	1041.966	1050.098	1054.699	1040.147	1020.245	1009.973	1006.977
52.5	975.091	983.758	987.931	973.486	954.868	944.382	942.242
55.0	907.788	915.385	920.628	905.755	888.207	877.293	877.079
57.5	840.592	846.370	852.576	837.275	819.941	808.599	807.208
60.0	771.256	777.141	782.919	767.404	750.712	740.012	736.588
62.5	702.241	707.805	712.085	697.533	681.697	671.425	670.034
65.0	634.296	638.362	642.642	627.662	612.575	602.303	601.768
67.5	566.244	569.240	573.627	558.326	543.881	533.716	531.148
70.0	497.015	500.439	503.756	489.418	475.187	465.985	463.417
72.5	428.321	431.638	434.420	420.617	406.493	397.933	397.291
75.0	361.339	363.158	366.368	352.458	338.869	329.988	328.811
77.5	294.678	296.176	298.744	285.690	273.064	263.434	261.080
80.0	227.910	230.371	231.334	219.992	207.794	198.485	196.024

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82.5	162.961	165.743	165.315	155.899	143.166	134.178	132.787
85.0	100.687	103.362	101.971	94.374	81.534	72.760	71.583
87.5	42.907	45.368	43.121	37.664	26.964	20.651	20.116
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	662.78	N.A.	13.10
0-30	1397.78	N.A.	27.60
0-40	2272.44	N.A.	44.80
0-60	3974.9	N.A.	78.40
0-80	4965.53	N.A.	97.90
0-90	5071.84	N.A.	100.00
10-90	4899.49	N.A.	96.60
20-40	1609.66	N.A.	31.70
20-50	2506.85	N.A.	49.40
40-70	2321.5	N.A.	45.80
60-80	990.63	N.A.	19.50
70-80	371.58	N.A.	7.30
80-90	106.31	N.A.	2.10
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	5071.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.35
10-20	490.43
20-30	735.00
30-40	874.66
40-50	897.19
50-60	805.26
60-70	619.05
70-80	371.58
80-90	106.31
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

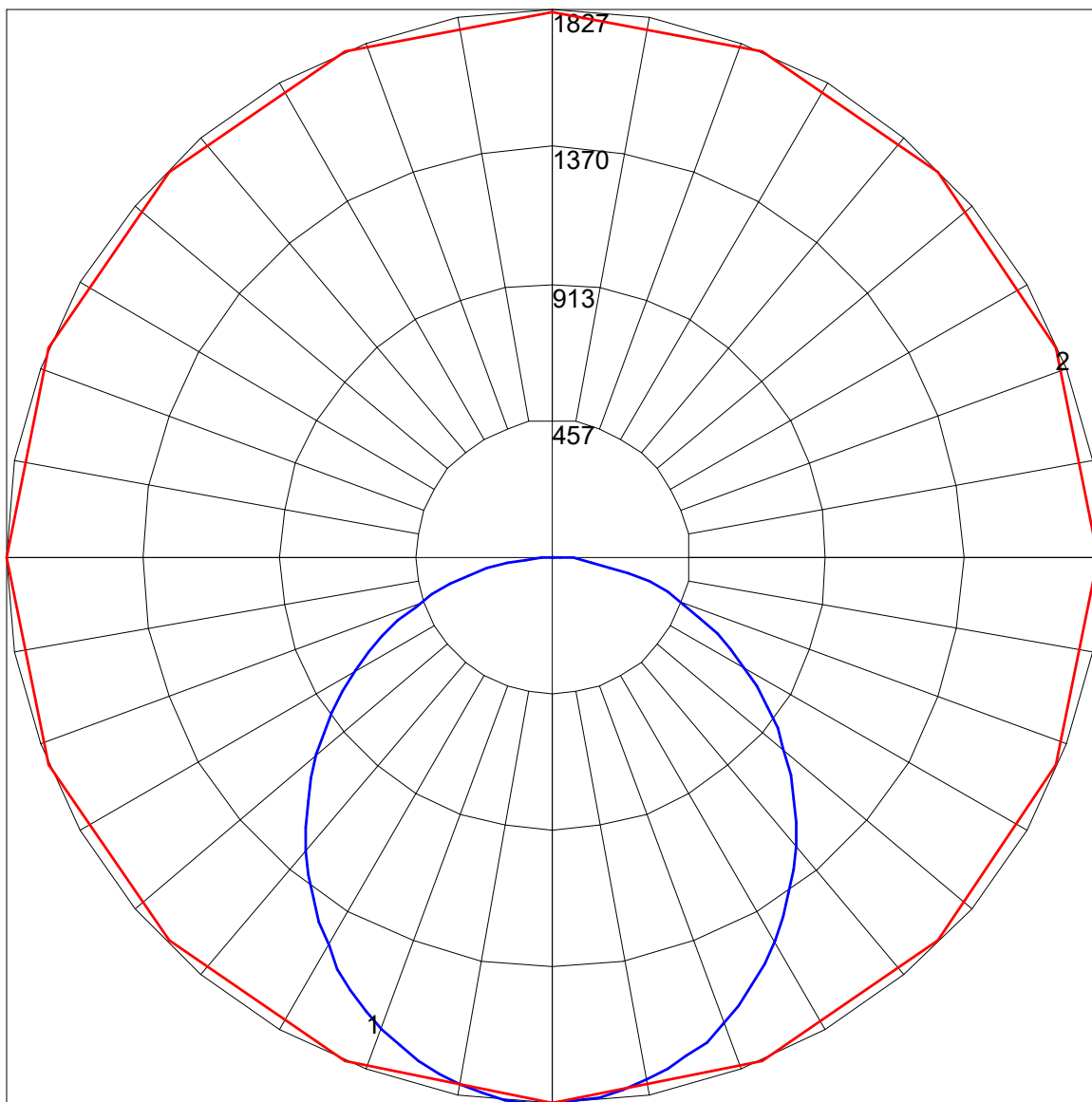
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1826.704 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)