



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTMOWT50120-277V-FL_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.0.4 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Fri Jun 30 14:44:13 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED2HTMOWT50120-277V-FL

[LAMP] LED 0.195W White 5630 package (65mA)

[LAMPCAT] SPMWHT541MD-3900K

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 90

[OTHER] Lumens per lamp: 59.7

[OTHER] Input watts: 40

[OTHER] Distribution: Direct

[OTHER] Symmetry: None

[OTHER] Photometric Type: C

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 2.3

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.3

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5062
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.28 ft
Luminous Width (90-270)	0.55 ft
Luminous Height	0.32 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BS100LED2HTMOWT50120-277V-FL_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11624	9133	9160
55	9785	7716	7778
65	7223	5999	6167
75	4730	4031	4148
85	2858	2105	2153

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93
2.5	1752.07	1734.10	1732.08	1742.00	1762.68	1787.33	1767.49	1796.93	1753.30	1768.74
5.0	1746.94	1733.53	1771.95	1748.61	1752.28	1723.29	1768.53	1734.34	1772.73	1738.56
7.5	1712.17	1741.25	1730.33	1739.64	1752.41	1726.98	1748.48	1754.79	1734.17	1724.83
10.0	1704.29	1717.68	1715.68	1727.32	1716.80	1716.84	1716.28	1727.43	1707.07	1723.53
12.5	1688.57	1695.93	1689.98	1687.40	1692.98	1711.76	1703.66	1715.57	1728.52	1708.30
15.0	1667.36	1656.34	1674.11	1672.05	1666.58	1666.70	1664.72	1688.46	1677.93	1663.61
17.5	1645.26	1644.71	1631.14	1642.97	1650.22	1655.07	1640.38	1645.61	1651.93	1647.77
20.0	1598.86	1609.34	1616.46	1612.44	1608.01	1609.16	1621.89	1615.15	1628.89	1609.78
22.5	1573.36	1579.26	1581.30	1581.17	1580.20	1579.23	1580.80	1598.56	1601.45	1601.25
25.0	1533.42	1523.56	1538.49	1534.28	1532.83	1548.54	1554.76	1561.33	1558.46	1578.01
27.5	1505.60	1489.80	1489.93	1492.29	1498.67	1506.67	1529.02	1525.27	1537.04	1539.92
30.0	1440.30	1452.82	1445.94	1450.09	1462.57	1471.41	1478.42	1480.00	1493.19	1488.71
32.5	1394.47	1397.31	1405.12	1400.11	1415.75	1428.21	1425.13	1434.79	1448.37	1448.74
35.0	1348.72	1346.85	1357.83	1358.65	1362.17	1366.82	1377.25	1392.33	1405.16	1404.91
37.5	1293.93	1292.51	1299.43	1306.34	1309.21	1318.06	1322.01	1334.80	1364.88	1364.42
40.0	1231.84	1235.40	1239.20	1240.38	1254.22	1259.48	1270.92	1296.58	1319.51	1308.97
42.5	1173.44	1170.10	1182.61	1195.08	1195.15	1219.84	1224.15	1235.15	1259.74	1269.13
45.0	1101.45	1104.92	1115.39	1126.00	1129.86	1151.89	1164.98	1169.06	1199.50	1196.74
47.5	1034.89	1039.59	1047.89	1062.69	1068.45	1090.56	1097.73	1116.78	1133.31	1144.85
50.0	946.39	963.14	969.54	990.24	1011.84	1030.16	1049.44	1052.39	1070.19	1088.82
52.5	876.89	882.56	896.43	928.34	942.17	973.93	977.99	991.32	1000.48	1012.38
55.0	791.31	794.12	816.20	859.22	878.68	908.49	910.96	922.60	939.59	952.39
57.5	704.08	713.59	745.36	776.50	815.14	837.80	850.91	858.29	874.38	887.26
60.0	622.92	635.04	671.64	707.59	745.32	770.94	790.32	795.10	808.28	815.88
62.5	539.61	553.84	589.06	638.56	679.30	696.75	717.65	727.68	740.78	756.36
65.0	466.13	480.00	516.51	562.23	603.68	634.27	645.74	661.59	672.08	681.63
67.5	394.29	407.42	443.45	496.36	539.96	560.03	583.22	597.30	611.89	616.43
70.0	330.24	340.52	381.94	425.13	466.07	498.01	514.88	530.13	536.44	545.50
72.5	272.82	286.25	315.91	362.12	404.20	433.61	445.31	455.01	466.55	475.76
75.0	218.65	232.13	265.99	304.76	341.57	363.19	382.49	384.51	393.29	395.07
77.5	171.94	184.35	214.59	247.81	280.18	305.35	312.62	317.53	323.29	328.00
80.0	136.35	145.66	173.15	196.33	226.89	247.63	257.11	258.07	263.56	267.84
82.5	102.52	113.58	133.52	154.24	177.75	194.03	202.68	205.46	209.22	210.36
85.0	75.79	84.78	101.59	118.36	138.44	152.14	162.94	162.81	162.16	165.98
87.5	55.70	63.55	77.02	90.97	108.33	118.07	124.50	129.91	126.89	129.28
90.0	37.28	44.65	57.32	68.34	80.98	93.67	95.99	99.00	97.12	101.05
92.5	25.35	32.70	42.31	51.98	62.35	71.43	72.87	76.18	74.68	75.96
95.0	17.88	23.10	31.67	39.75	48.48	55.31	57.97	58.34	59.42	60.06
97.5	15.07	17.86	24.39	31.39	38.20	42.56	45.72	47.98	46.57	46.52
100.0	11.79	13.61	19.80	24.64	29.76	33.49	37.22	37.26	37.54	37.88
102.5	9.99	11.41	16.66	20.38	23.43	27.79	29.88	31.45	31.29	30.80
105.0	8.85	9.87	12.29	16.52	19.68	21.48	23.39	25.19	26.07	27.05
107.5	7.83	8.23	10.60	13.83	15.09	17.62	19.80	21.04	22.06	22.67
110.0	6.56	7.82	8.86	11.19	12.85	13.90	16.00	17.58	18.46	18.53
112.5	5.85	6.52	7.89	9.08	10.08	10.92	12.63	15.08	15.62	15.76
115.0	5.42	6.01	6.30	7.61	7.58	8.79	10.82	12.11	12.60	13.85
117.5	4.99	4.99	5.74	5.68	6.45	7.00	8.82	10.06	10.74	10.21
120.0	3.81	4.41	4.49	4.78	4.69	5.65	6.83	7.79	8.37	9.04
122.5	3.42	3.59	3.89	3.03	3.43	4.30	5.18	6.01	6.40	6.71
125.0	2.92	3.01	3.23	2.59	2.76	2.80	3.98	4.62	5.25	5.78
127.5	2.35	2.36	2.26	1.99	1.69	2.14	2.94	3.79	3.91	4.43
130.0	1.79	1.76	1.71	1.37	1.06	1.39	1.99	2.53	2.93	3.25
132.5	1.42	1.46	1.27	1.26	0.85	1.14	1.28	1.93	2.12	2.12

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CANDELA TABULATION - (Cont.)

135.0	0.98	0.87	0.74	0.76	0.57	0.58	0.92	1.16	1.51	1.46
137.5	0.80	0.64	0.48	0.47	0.32	0.21	0.46	0.79	1.03	0.93
140.0	0.37	0.34	0.25	0.22	0.19	0.18	0.25	0.35	0.61	0.72
142.5	0.34	0.09	0.15	0.06	0.09	0.06	0.19	0.20	0.28	0.35
145.0	0.04	0.09	0.21	0.07	0.09	0.04	0.15	0.16	0.20	0.20
147.5	0.10	0.17	0.10	0.17	0.08	0.15	0.11	0.06	0.12	0.17
150.0	0.14	0.20	0.22	0.17	0.22	0.11	0.22	0.07	0.09	0.18
152.5	0.24	0.40	0.21	0.31	0.28	0.31	0.25	0.10	0.07	0.28
155.0	0.24	0.33	0.38	0.33	0.31	0.36	0.48	0.23	0.28	0.17
157.5	0.35	0.37	0.41	0.53	0.30	0.36	0.19	0.20	0.35	0.36
160.0	0.33	0.44	0.37	0.31	0.45	0.54	0.43	0.30	0.35	0.53
162.5	0.54	0.44	0.62	0.43	0.28	0.71	0.47	0.54	0.33	0.60
165.0	0.65	0.58	0.34	0.63	0.52	0.57	0.29	0.72	0.51	0.42
167.5	0.78	0.53	0.58	0.53	0.61	0.65	0.52	0.79	0.53	0.73
170.0	0.30	0.49	0.51	0.80	0.66	0.72	0.56	0.53	0.48	0.41
172.5	0.56	0.16	0.32	0.60	0.55	0.60	0.42	0.54	0.58	0.44
175.0	0.75	0.52	0.14	0.23	0.35	0.96	0.92	0.86	0.34	0.63
177.5	0.50	0.49	0.75	0.63	0.52	0.25	0.46	0.48	0.26	0.25
180.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0.0	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93
2.5	1730.66	1758.53	1714.51	1742.18	1792.84	1762.00	1791.43	1700.96	1707.63	1732.93
5.0	1773.83	1741.09	1761.29	1754.93	1731.70	1728.62	1750.33	1746.40	1757.62	1745.72
7.5	1718.99	1709.32	1732.00	1736.05	1742.33	1724.02	1720.69	1749.15	1730.25	1736.58
10.0	1721.75	1707.83	1713.96	1722.85	1708.86	1741.25	1730.31	1707.73	1721.79	1693.19
12.5	1709.92	1709.55	1693.05	1692.35	1703.28	1696.96	1686.07	1701.07	1684.03	1687.47
15.0	1666.34	1677.63	1672.91	1656.69	1672.41	1677.66	1659.95	1676.11	1683.46	1667.32
17.5	1661.95	1645.43	1643.38	1654.54	1625.95	1637.65	1642.74	1637.30	1628.71	1643.39
20.0	1620.95	1628.81	1618.47	1625.94	1601.96	1602.39	1614.03	1592.68	1603.00	1613.24
22.5	1595.59	1589.34	1594.67	1584.74	1581.41	1580.10	1581.13	1565.35	1569.15	1586.44
25.0	1558.97	1562.45	1566.10	1546.42	1529.17	1538.08	1527.09	1541.06	1530.06	1536.11
27.5	1533.52	1535.77	1515.06	1506.75	1506.98	1486.60	1490.33	1496.67	1480.80	1493.50
30.0	1498.70	1481.11	1475.59	1458.13	1464.04	1445.85	1450.05	1449.33	1445.05	1453.34
32.5	1448.21	1447.65	1443.65	1414.93	1418.45	1408.17	1406.20	1396.07	1396.74	1396.12
35.0	1403.16	1394.90	1369.39	1368.12	1363.24	1352.55	1347.68	1347.52	1345.92	1345.09
37.5	1364.17	1346.20	1324.64	1319.43	1310.71	1299.75	1294.65	1286.65	1291.02	1301.54
40.0	1311.71	1286.81	1276.10	1268.45	1265.01	1246.53	1240.90	1229.37	1247.35	1225.90
42.5	1253.25	1231.27	1229.75	1210.57	1199.62	1178.08	1179.02	1166.97	1179.29	1171.24
45.0	1193.05	1183.92	1163.30	1145.16	1133.27	1123.76	1114.86	1098.78	1104.47	1112.64
47.5	1126.97	1118.19	1099.01	1088.38	1078.44	1060.19	1048.04	1036.02	1028.66	1030.68
50.0	1071.56	1054.94	1037.11	1023.03	1004.85	992.83	979.11	959.60	950.29	961.41
52.5	1005.78	988.89	981.69	972.82	941.07	921.69	905.63	876.76	874.64	879.91
55.0	936.29	922.40	918.34	901.00	876.82	856.85	827.50	802.27	787.42	800.90
57.5	872.56	853.69	845.22	839.10	821.03	784.20	749.72	718.67	712.42	720.94
60.0	803.12	794.44	786.18	765.68	740.96	707.50	666.76	642.24	631.78	640.28
62.5	747.61	730.90	715.84	701.26	675.10	632.05	592.60	560.70	544.10	559.76
65.0	676.21	657.16	645.30	626.58	602.20	565.17	521.27	483.47	473.40	483.72
67.5	613.42	593.00	585.09	561.89	533.72	493.62	448.42	415.74	403.15	409.62
70.0	541.67	526.00	513.51	499.37	466.10	427.93	385.43	344.38	333.73	347.89
72.5	465.68	458.64	445.84	433.12	403.62	364.02	325.91	288.75	275.17	291.50
75.0	393.56	385.87	378.10	364.78	336.32	303.77	267.13	236.32	226.49	234.86
77.5	327.80	318.15	314.07	305.65	277.57	247.60	220.03	189.76	178.36	191.34
80.0	261.76	258.02	253.39	244.59	228.76	201.09	172.94	148.44	139.55	147.48

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CANDELA TABULATION - (Cont.)

82.5	210.29	205.61	202.62	196.19	180.43	159.09	132.54	113.47	107.06	113.46
85.0	165.66	163.21	157.98	149.89	139.78	119.37	100.87	86.23	78.47	87.26
87.5	126.92	127.57	123.20	119.09	107.23	90.41	76.88	63.01	56.99	62.74
90.0	98.68	98.69	95.75	89.89	80.34	67.63	58.32	46.20	36.55	45.70
92.5	76.81	74.34	75.98	71.26	61.59	53.41	41.71	32.24	26.17	32.71
95.0	58.16	58.70	55.95	53.80	47.81	41.38	31.72	23.69	19.19	23.72
97.5	48.84	45.86	44.25	42.85	37.41	30.82	24.43	16.97	14.78	17.48
100.0	37.20	37.43	35.46	33.13	29.86	24.44	19.08	12.79	12.16	13.62
102.5	30.44	29.80	28.81	26.78	23.65	20.15	17.00	11.24	9.33	12.08
105.0	27.29	25.26	24.30	21.60	18.80	15.45	12.85	10.26	9.04	9.55
107.5	21.78	21.92	19.61	16.89	15.74	13.04	10.74	8.43	8.26	8.61
110.0	19.20	16.94	15.47	14.35	13.41	10.79	9.51	7.80	6.65	7.64
112.5	15.75	13.91	13.31	11.17	9.85	9.20	7.37	7.06	6.07	7.03
115.0	12.74	12.45	10.34	8.90	8.29	7.15	6.75	5.84	5.78	5.73
117.5	10.15	9.50	8.25	6.88	5.93	5.32	5.77	5.25	4.98	4.97
120.0	8.67	7.83	7.10	5.11	5.09	4.30	4.53	4.46	3.83	4.59
122.5	6.71	6.28	5.39	3.95	3.45	3.54	3.22	3.79	3.26	3.62
125.0	5.00	5.00	3.92	3.09	3.12	2.55	3.04	3.01	3.14	3.08
127.5	4.08	3.87	2.68	2.26	1.70	2.15	2.45	2.45	2.43	2.67
130.0	3.17	2.20	2.41	1.73	1.26	1.34	1.59	1.93	1.95	1.95
132.5	2.24	1.90	1.77	1.06	0.90	1.14	1.28	1.58	1.52	1.41
135.0	1.56	1.32	0.97	0.52	0.52	0.65	1.05	1.20	1.34	0.92
137.5	1.01	0.74	0.55	0.29	0.15	0.25	0.75	0.90	0.83	0.74
140.0	0.48	0.41	0.17	0.10	0.11	0.21	0.39	0.53	0.56	0.50
142.5	0.38	0.21	0.26	0.10	0.09	0.11	0.22	0.31	0.33	0.18
145.0	0.31	0.10	0.02	0.07	0.17	0.08	0.04	0.13	0.19	0.08
147.5	0.16	0.05	0.06	0.08	0.06	0.13	0.06	0.06	0.09	0.25
150.0	0.06	0.06	0.16	0.22	0.31	0.19	0.17	0.22	0.08	0.20
152.5	0.14	0.11	0.24	0.43	0.15	0.12	0.20	0.19	0.21	0.28
155.0	0.19	0.15	0.25	0.38	0.30	0.23	0.19	0.29	0.40	0.28
157.5	0.27	0.26	0.36	0.29	0.45	0.53	0.30	0.34	0.29	0.28
160.0	0.44	0.54	0.42	0.63	0.47	0.46	0.47	0.48	0.52	0.48
162.5	0.48	0.43	0.48	0.56	0.55	0.49	0.66	0.54	0.59	0.29
165.0	0.30	0.41	0.53	0.73	0.13	0.48	0.53	0.47	0.47	0.74
167.5	1.01	0.54	0.69	0.79	0.50	0.45	0.67	0.51	0.64	0.57
170.0	0.90	0.80	0.79	0.55	0.62	0.84	0.48	0.56	0.61	0.47
172.5	0.65	0.44	0.56	0.47	0.49	0.26	0.67	0.41	0.44	0.73
175.0	0.26	0.12	0.73	0.82	0.48	0.58	0.76	0.56	0.45	0.79
177.5	0.17	0.38	0.98	0.28	0.16	0.77	0.22	0.92	0.69	0.00
180.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93
2.5	1718.25	1747.51	1757.10	1747.86	1745.26	1735.87	1727.16	1739.81	1749.57	1762.26
5.0	1764.40	1757.99	1756.99	1750.25	1743.58	1734.43	1760.74	1755.91	1785.25	1743.57
7.5	1737.35	1729.46	1733.08	1748.95	1732.38	1742.12	1729.00	1716.30	1747.46	1722.84
10.0	1713.77	1708.79	1706.53	1725.03	1718.80	1720.41	1725.12	1723.00	1726.10	1736.48
12.5	1704.16	1675.71	1700.62	1702.45	1700.46	1695.34	1709.55	1705.87	1717.79	1693.47
15.0	1675.51	1678.95	1694.55	1674.20	1672.28	1680.58	1651.13	1673.08	1671.11	1671.37
17.5	1648.10	1652.83	1634.80	1651.02	1653.88	1638.14	1648.87	1642.38	1637.59	1651.25
20.0	1598.97	1610.47	1606.04	1608.16	1623.92	1633.93	1621.99	1616.94	1620.47	1622.83
22.5	1579.25	1567.52	1583.05	1573.87	1592.64	1601.12	1589.24	1604.92	1588.33	1590.38
25.0	1536.84	1532.83	1532.17	1539.07	1556.58	1555.28	1569.03	1566.18	1569.39	1574.59
27.5	1498.62	1491.29	1497.21	1503.03	1515.19	1521.56	1535.44	1530.03	1533.06	1526.56

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CANDELA TABULATION - (Cont.)

30.0	1447.52	1450.77	1457.85	1457.76	1474.92	1482.29	1493.70	1500.32	1488.48	1483.66
32.5	1405.85	1409.48	1419.96	1427.14	1434.58	1436.40	1448.19	1449.28	1447.59	1429.18
35.0	1354.19	1351.40	1359.41	1372.09	1382.76	1393.43	1405.85	1404.19	1416.41	1394.23
37.5	1295.11	1298.47	1314.23	1324.77	1328.90	1347.66	1363.55	1371.33	1366.42	1344.40
40.0	1234.85	1236.55	1257.11	1260.74	1268.73	1287.80	1300.11	1323.69	1308.01	1287.66
42.5	1172.77	1187.43	1196.73	1202.20	1220.33	1232.99	1259.01	1253.62	1265.24	1235.97
45.0	1106.55	1123.02	1140.18	1144.01	1168.05	1187.35	1194.57	1197.76	1193.05	1175.10
47.5	1043.78	1056.45	1074.52	1091.24	1109.61	1116.05	1139.56	1156.61	1129.91	1112.92
50.0	967.64	994.95	1016.94	1038.56	1040.28	1053.38	1074.58	1077.44	1076.00	1052.64
52.5	897.65	921.84	953.46	967.55	977.13	988.90	1007.82	1018.37	1003.42	975.95
55.0	828.15	856.38	880.25	904.90	911.55	922.11	936.54	944.79	936.97	925.54
57.5	744.40	783.15	815.79	833.27	850.94	857.67	869.15	885.19	873.56	850.88
60.0	661.08	710.94	741.14	765.20	781.11	791.36	809.38	820.38	808.52	791.05
62.5	593.51	639.97	674.11	699.10	711.34	726.13	744.05	756.64	744.49	731.70
65.0	520.95	565.62	604.95	632.48	645.99	666.83	678.15	686.36	677.07	664.70
67.5	453.11	495.85	539.30	564.38	582.56	596.33	603.63	617.03	610.31	598.03
70.0	380.90	425.05	466.37	500.13	516.14	529.33	541.96	543.56	538.69	528.11
72.5	320.73	365.30	402.00	432.78	448.25	460.99	467.66	476.08	470.94	455.51
75.0	265.38	304.57	342.64	364.94	377.96	388.34	390.36	398.63	395.84	388.11
77.5	215.36	251.52	282.38	302.27	316.22	315.92	324.88	329.21	324.79	322.17
80.0	171.66	201.29	224.39	244.38	255.35	259.84	258.56	264.71	264.67	261.47
82.5	134.49	156.91	178.74	193.85	199.70	205.75	209.03	210.88	210.04	207.98
85.0	102.16	119.41	140.15	151.05	156.24	159.56	162.95	166.65	165.09	161.68
87.5	77.23	90.45	105.57	118.57	125.45	126.31	127.12	129.08	128.93	129.60
90.0	57.18	68.57	81.61	90.79	94.30	99.02	98.11	98.63	98.37	97.66
92.5	43.21	52.58	61.97	68.73	75.14	75.83	74.45	75.01	76.63	76.17
95.0	31.50	40.40	48.73	54.63	58.65	56.72	59.02	59.38	58.80	58.38
97.5	25.24	30.71	37.53	42.22	44.05	46.41	46.46	46.44	47.23	45.62
100.0	19.34	26.04	30.54	32.06	34.62	35.94	38.25	37.47	37.84	35.98
102.5	15.75	20.08	23.45	26.85	28.07	30.66	31.01	31.51	31.12	30.87
105.0	13.09	16.51	18.94	21.73	23.84	25.79	25.21	25.97	26.77	25.64
107.5	10.10	13.45	15.25	16.93	19.81	20.33	21.61	21.87	21.56	20.61
110.0	9.75	10.58	12.83	14.55	16.19	16.85	19.20	18.56	18.56	17.11
112.5	8.11	8.89	10.34	10.62	11.99	14.81	15.49	15.43	14.81	14.70
115.0	6.76	7.60	7.54	9.10	10.68	11.81	12.12	13.01	12.59	11.92
117.5	5.20	6.31	6.24	7.08	8.63	9.30	11.05	10.51	9.89	10.09
120.0	4.55	4.45	4.50	5.68	6.72	7.98	8.23	8.86	8.46	7.96
122.5	3.85	3.56	3.48	4.26	5.26	6.10	6.16	6.66	7.14	5.93
125.0	2.66	2.55	3.05	2.45	3.86	4.86	5.91	5.50	5.18	5.56
127.5	2.16	1.92	1.99	2.09	2.56	3.71	4.39	4.26	4.23	3.51
130.0	2.02	1.43	1.18	1.42	1.82	2.28	2.90	2.96	3.08	2.51
132.5	1.39	0.96	0.83	1.09	1.51	1.72	1.92	2.37	1.94	1.61
135.0	0.84	0.78	0.50	0.55	0.86	1.36	1.47	1.61	1.76	1.32
137.5	0.75	0.47	0.38	0.25	0.36	0.98	0.97	1.07	1.17	0.80
140.0	0.25	0.19	0.16	0.15	0.22	0.38	0.57	0.64	0.56	0.42
142.5	0.19	0.17	0.10	0.12	0.16	0.22	0.35	0.20	0.33	0.19
145.0	0.14	0.07	0.05	0.08	0.15	0.12	0.10	0.17	0.16	0.10
147.5	0.10	0.16	0.11	0.08	0.10	0.06	0.07	0.16	0.20	0.09
150.0	0.17	0.23	0.12	0.13	0.07	0.17	0.03	0.11	0.07	0.11
152.5	0.23	0.22	0.43	0.35	0.22	0.11	0.24	0.12	0.07	0.12
155.0	0.32	0.31	0.29	0.26	0.30	0.22	0.28	0.11	0.23	0.32
157.5	0.59	0.42	0.38	0.35	0.32	0.51	0.33	0.50	0.27	0.25
160.0	0.41	0.21	0.51	0.54	0.47	0.48	0.29	0.42	0.63	0.33
162.5	0.52	0.57	0.46	0.42	0.47	0.63	0.39	0.36	0.29	0.62
165.0	0.67	0.49	0.51	0.50	0.60	0.61	0.51	0.31	0.63	0.58
167.5	0.30	0.87	0.66	0.62	0.44	0.54	0.59	0.73	0.36	0.39

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CANDELA TABULATION - (Cont.)

170.0	0.29	0.66	1.12	0.67	0.25	0.24	0.96	0.51	0.85	0.86
172.5	0.39	0.47	0.56	1.02	0.17	0.50	0.32	0.49	0.25	0.40
175.0	0.51	0.56	0.93	0.52	0.49	0.11	0.52	0.62	0.39	0.25
177.5	0.21	0.48	0.00	0.77	0.53	1.02	1.08	1.45	0.52	0.50
180.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

Vert. Horizontal Angles

Angles	300	310	320	330	340	350	360
0.0	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93	1768.93
2.5	1765.26	1747.29	1799.53	1770.81	1703.47	1784.71	1752.09
5.0	1767.32	1762.22	1751.71	1747.75	1744.87	1739.83	1747.07
7.5	1729.71	1751.36	1747.88	1741.29	1735.88	1745.03	1712.17
10.0	1714.28	1719.10	1737.05	1715.19	1722.01	1719.88	1704.29
12.5	1708.84	1694.79	1705.31	1700.51	1706.08	1696.14	1688.57
15.0	1702.08	1678.88	1679.50	1680.74	1670.18	1670.20	1667.36
17.5	1633.89	1644.70	1643.56	1651.36	1629.88	1648.57	1645.29
20.0	1616.72	1623.46	1609.30	1609.85	1600.09	1597.35	1598.86
22.5	1586.45	1573.10	1574.56	1558.56	1578.96	1561.67	1573.39
25.0	1545.04	1552.35	1539.94	1542.71	1531.97	1536.22	1533.44
27.5	1510.36	1502.94	1507.23	1492.52	1495.20	1490.37	1505.60
30.0	1476.34	1470.02	1459.15	1454.77	1437.33	1441.93	1440.30
32.5	1436.42	1420.63	1401.24	1398.62	1401.90	1399.26	1394.47
35.0	1379.29	1370.68	1367.12	1347.03	1353.54	1358.11	1348.74
37.5	1324.19	1316.89	1298.45	1299.69	1296.80	1298.85	1293.94
40.0	1273.95	1267.50	1252.86	1244.35	1234.81	1239.97	1231.86
42.5	1218.79	1209.79	1183.85	1185.13	1183.90	1174.00	1173.44
45.0	1167.12	1159.18	1142.25	1116.79	1112.71	1104.35	1101.45
47.5	1104.79	1091.58	1074.18	1056.99	1043.18	1028.97	1034.89
50.0	1047.78	1026.81	1008.78	991.93	977.14	953.40	946.39
52.5	984.19	967.77	950.29	928.92	899.54	875.89	876.90
55.0	915.76	906.65	884.17	853.88	823.82	794.65	791.33
57.5	843.81	831.40	813.21	775.73	747.89	717.18	704.08
60.0	781.39	765.97	743.25	706.60	666.35	632.51	622.92
62.5	714.77	696.60	676.31	639.10	588.42	552.97	539.61
65.0	648.35	631.06	602.58	568.62	516.14	480.63	466.13
67.5	582.75	562.78	537.59	491.57	450.13	407.65	394.29
70.0	513.13	496.80	465.80	426.69	383.30	346.22	330.24
72.5	447.98	433.60	402.52	365.38	319.74	287.39	272.82
75.0	383.81	367.69	339.67	303.85	266.45	232.87	218.66
77.5	316.08	304.91	279.54	249.43	216.54	188.18	171.96
80.0	254.35	246.26	224.88	198.30	172.81	148.62	136.35
82.5	201.11	196.88	177.31	158.58	133.00	114.07	102.52
85.0	160.98	151.14	138.79	119.04	102.49	85.73	75.79
87.5	125.89	120.14	105.93	90.81	76.66	62.96	55.70
90.0	96.75	92.58	81.82	69.21	56.18	45.77	37.28
92.5	74.89	70.26	63.72	51.30	41.75	31.15	25.35
95.0	56.89	54.51	47.37	41.06	32.23	23.75	17.88
97.5	44.16	42.11	37.35	30.77	24.93	18.39	15.08
100.0	35.59	34.09	29.82	25.01	19.65	13.86	11.79
102.5	29.04	26.83	23.88	19.89	15.99	11.57	9.99
105.0	23.74	22.26	19.04	16.88	13.25	9.93	8.86
107.5	19.52	18.00	15.98	13.01	10.91	9.02	7.84
110.0	15.87	13.60	12.74	10.75	9.10	7.63	6.56
112.5	13.47	11.44	10.54	8.68	8.07	7.04	5.85
115.0	11.14	9.05	7.56	7.08	6.48	5.65	5.42

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CANDELA TABULATION - (Cont.)

117.5	8.85	7.20	6.19	5.80	5.30	5.09	4.99
120.0	7.00	5.50	4.65	5.28	4.63	4.10	3.81
122.5	5.19	4.01	3.76	3.60	4.01	3.40	3.42
125.0	4.00	3.17	2.42	2.91	3.26	2.73	2.93
127.5	3.00	2.39	2.19	1.96	2.10	2.48	2.35
130.0	2.05	1.72	1.20	1.45	1.65	1.63	1.79
132.5	1.66	0.93	0.79	1.12	1.17	1.43	1.42
135.0	1.02	0.61	0.47	0.59	0.80	0.88	0.98
137.5	0.40	0.30	0.32	0.41	0.71	0.69	0.80
140.0	0.27	0.13	0.16	0.24	0.24	0.52	0.39
142.5	0.14	0.03	0.09	0.14	0.17	0.07	0.34
145.0	0.08	0.10	0.09	0.08	0.17	0.10	0.04
147.5	0.06	0.12	0.15	0.18	0.17	0.18	0.10
150.0	0.20	0.16	0.10	0.13	0.13	0.19	0.14
152.5	0.22	0.19	0.24	0.23	0.36	0.35	0.24
155.0	0.29	0.40	0.21	0.32	0.38	0.40	0.24
157.5	0.38	0.28	0.33	0.37	0.39	0.37	0.35
160.0	0.49	0.37	0.28	0.62	0.61	0.20	0.33
162.5	0.54	0.51	0.57	0.65	0.38	0.55	0.54
165.0	0.44	0.61	0.40	0.44	0.63	0.82	0.65
167.5	0.32	0.50	0.48	0.62	0.61	0.78	0.78
170.0	0.81	0.42	0.70	0.76	0.65	0.63	0.30
172.5	0.51	0.92	0.65	0.09	0.70	0.26	0.56
175.0	0.43	0.73	0.72	0.61	0.38	0.36	0.75
177.5	0.70	0.90	0.70	0.42	0.75	0.50	0.50
180.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	638.01	N.A.	12.60
0-30	1350.86	N.A.	26.70
0-40	2208.64	N.A.	43.60
0-60	3877.63	N.A.	76.60
0-80	4821.4	N.A.	95.30
0-90	4973.5	N.A.	98.30
10-90	4807.54	N.A.	95.00
20-40	1570.63	N.A.	31.00
20-50	2454.42	N.A.	48.50
40-70	2259.89	N.A.	44.60
60-80	943.77	N.A.	18.60
70-80	352.88	N.A.	7.00
80-90	152.09	N.A.	3.00
90-110	74.17	N.A.	1.50
90-120	83.38	N.A.	1.60
90-130	86.77	N.A.	1.70
90-150	87.70	N.A.	1.70
90-180	88.04	N.A.	1.70
110-180	13.87	N.A.	0.30
0-180	5061.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.95
10-20	472.06
20-30	712.85
30-40	857.78
40-50	883.79
50-60	785.20
60-70	590.90
70-80	352.88
80-90	152.09
90-100	53.13
100-110	21.03
110-120	9.21
120-130	3.39
130-140	0.83
140-150	0.11
150-160	0.13
160-170	0.15
170-180	0.05

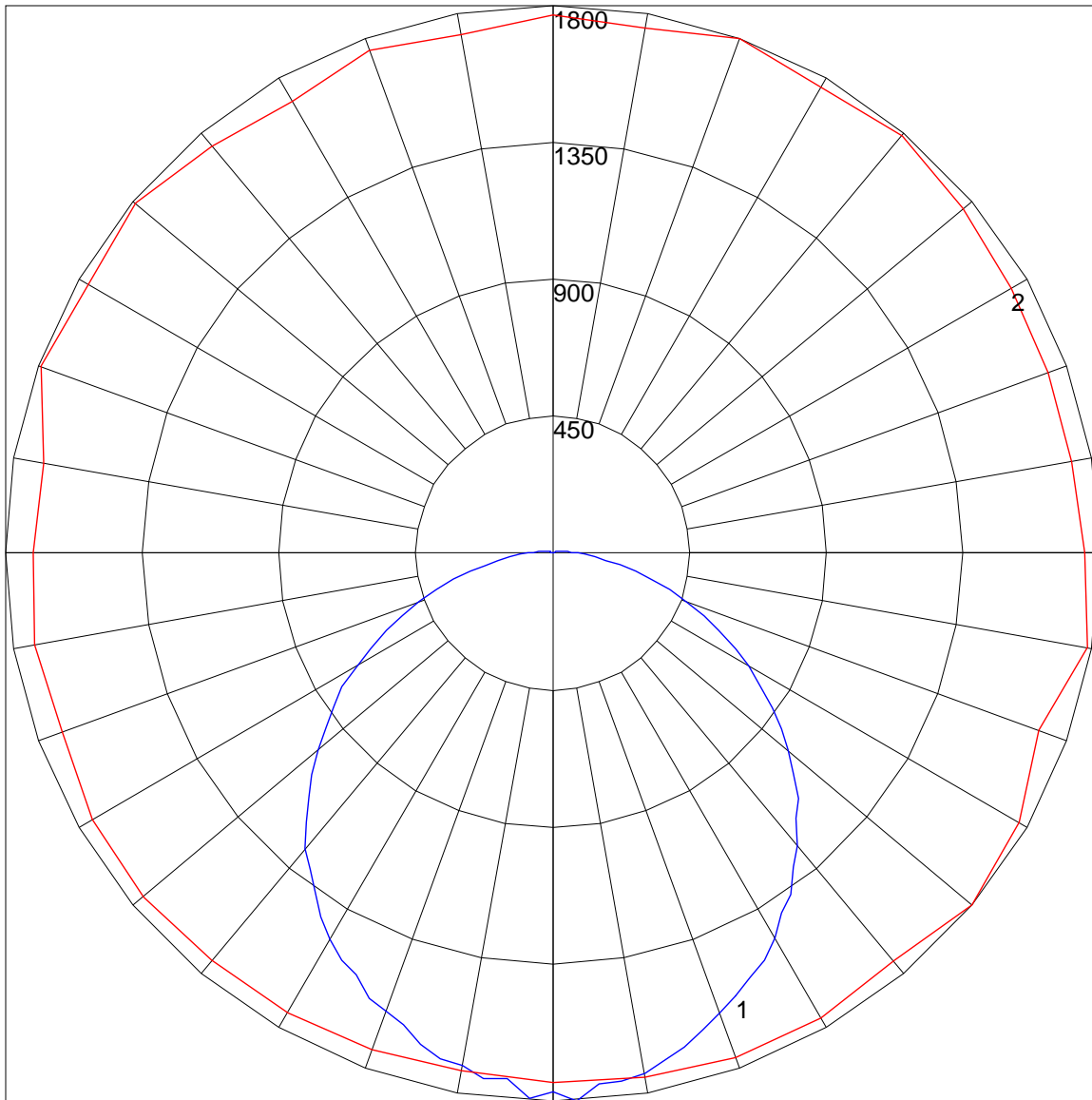
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	93	96	93	89	92	89	86	88	86	84	81
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	60	68	63	59	57
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	56	50	45	54	49	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

POLAR GRAPH



Maximum Candela = 1799.53 Located At Horizontal Angle = 320, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)