



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LR16W-24G-4100-40K-A751-UNI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] G000616
 [TESTLAB] TBR TORONTO
 [ISSUEDATE] 11-11-2015
 [MANUFAC] MERCURY LIGHTING
 [MORE] FAIRFIELD, NEW JERSEY
 [LUMCAT] LR16W-24G-4100-40K-A751-UNI
 [LUMINAIRE] VISIONEERING 2X4 RECESSED T-BAR LED LUMINAIRE
 [MORE] POST-PAINTED WHITE INTERIOR AND PERFORATED BASKET WITH TRANSLUCENT ACRYLIC LENS INLAY
 [LAMP] 4X PHILIPS 2200lm LV3 840K
 [BALLAST] 1X 75W PHILIPS SimpleSet 1300mA/4 per Board

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	50.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1612	1901	2109
55	1388	1893	2142
65	1079	1823	1968
75	805	1367	1642
85	439	1080	1474

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46
2.5	1433.27	1433.09	1432.94	1432.82	1432.74	1432.68	1432.66	1432.67	1432.68	1432.69
5.0	1427.48	1427.15	1426.93	1426.83	1426.84	1426.97	1427.21	1427.56	1427.90	1428.26
7.5	1417.69	1417.25	1417.09	1417.19	1417.56	1418.07	1418.78	1419.72	1420.71	1421.79
10.0	1404.15	1403.62	1403.54	1403.93	1404.79	1406.10	1407.61	1409.46	1411.43	1413.57
12.5	1386.53	1385.96	1386.14	1387.08	1388.59	1390.74	1393.41	1396.48	1399.87	1403.49
15.0	1365.34	1364.75	1365.21	1366.70	1369.19	1372.42	1376.50	1381.08	1386.05	1388.72
17.5	1340.16	1339.59	1340.49	1342.80	1346.35	1351.14	1356.96	1362.41	1365.18	1368.54
20.0	1311.58	1311.03	1312.37	1315.59	1320.50	1326.88	1333.41	1337.00	1341.63	1346.79
22.5	1279.21	1278.80	1280.85	1285.14	1291.58	1299.80	1304.06	1309.48	1316.08	1323.33
25.0	1243.76	1243.42	1246.03	1251.58	1259.60	1266.38	1272.33	1279.97	1288.82	1298.50
27.5	1204.64	1204.53	1208.10	1214.95	1224.73	1230.40	1238.40	1248.50	1260.04	1271.65
30.0	1162.46	1162.50	1166.85	1175.38	1184.24	1191.99	1202.54	1215.40	1228.42	1237.42
32.5	1117.13	1117.49	1122.95	1133.23	1141.20	1151.34	1164.74	1180.33	1190.50	1202.03
35.0	1068.83	1069.47	1076.10	1087.63	1096.00	1108.84	1125.25	1138.26	1151.24	1165.88
37.5	1017.52	1018.62	1026.59	1037.63	1048.55	1064.50	1081.11	1094.83	1111.03	1128.75
40.0	963.90	965.31	974.54	985.69	999.39	1018.31	1033.37	1050.37	1069.92	1089.27
42.5	907.01	908.96	919.99	931.66	948.23	967.58	984.30	1004.99	1026.96	1044.69
45.0	847.75	850.34	863.12	875.57	895.61	914.01	934.57	959.02	978.85	1000.01
47.5	786.58	789.78	802.98	817.96	840.56	859.40	884.05	907.73	930.84	955.35
50.0	723.20	727.10	740.75	759.14	781.55	804.37	831.45	855.94	882.79	910.40
52.5	658.31	663.02	677.62	699.49	721.71	749.07	775.91	804.48	835.07	858.85
55.0	592.31	597.95	613.88	638.76	662.17	691.97	720.86	753.35	780.90	807.64
57.5	525.85	532.46	550.00	575.38	603.14	633.55	666.92	698.37	727.55	757.18
60.0	460.30	467.91	487.20	512.96	544.47	576.69	612.03	642.69	674.97	702.96
62.5	397.32	405.22	426.42	452.96	485.27	521.76	554.72	588.71	618.47	637.36
65.0	339.37	347.25	368.90	395.86	429.22	465.38	499.62	532.25	553.00	573.24
67.5	287.83	295.08	315.01	341.84	377.05	410.23	445.77	467.53	489.42	510.58
70.0	240.07	247.66	266.50	292.22	323.83	358.47	382.94	405.66	424.63	428.28
72.5	195.90	203.78	221.20	246.85	274.49	301.06	323.63	339.11	342.30	344.94
75.0	154.93	162.36	177.28	201.21	225.83	245.94	258.72	260.57	262.01	263.15
77.5	117.49	121.64	136.44	158.90	176.73	186.24	185.82	184.83	191.75	205.09
80.0	83.52	82.78	97.60	115.09	124.62	121.09	120.29	133.63	145.29	155.10
82.5	53.30	50.03	61.63	72.09	69.28	74.87	84.80	93.35	100.46	106.33
85.0	28.45	24.62	31.33	33.86	40.35	46.44	51.56	57.80	63.99	70.04
87.5	9.41	11.57	12.89	15.46	19.21	23.06	26.63	29.97	33.23	36.40
90.0	1.06	1.36	1.36	1.44	1.57	1.83	2.18	2.52	2.79	3.03

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46
2.5	1432.73	1432.80	1432.89	1433.00	1433.05	1433.08	1433.13	1433.20	1433.29	1433.23
5.0	1428.71	1429.13	1429.47	1429.87	1430.18	1430.50	1430.78	1430.93	1431.12	1431.01
7.5	1422.94	1424.09	1425.19	1426.20	1426.99	1427.72	1428.24	1428.65	1428.95	1428.78
10.0	1415.67	1417.81	1419.88	1421.76	1423.38	1424.68	1425.65	1426.34	1426.78	1426.55
12.5	1407.09	1409.38	1410.55	1411.71	1412.88	1413.84	1414.52	1415.04	1415.42	1415.24
15.0	1391.00	1393.39	1395.65	1397.84	1399.83	1401.56	1402.71	1403.54	1404.06	1403.68
17.5	1372.25	1376.20	1380.00	1383.39	1386.48	1388.98	1390.91	1392.04	1392.70	1392.11
20.0	1352.25	1357.85	1363.44	1368.44	1372.73	1376.30	1378.92	1380.54	1381.34	1380.53
22.5	1331.05	1338.70	1346.10	1350.91	1354.12	1356.92	1359.11	1360.37	1361.07	1360.36
25.0	1308.57	1315.48	1320.99	1326.40	1331.20	1335.10	1338.14	1339.90	1340.80	1339.87
27.5	1278.97	1286.66	1294.39	1301.48	1308.02	1313.14	1317.05	1319.39	1320.52	1319.32
30.0	1247.16	1257.20	1267.12	1276.28	1284.42	1290.97	1295.99	1298.88	1300.25	1298.77

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CANDELA TABULATION - (Cont.)

32.5	1214.53	1227.16	1239.36	1250.83	1257.55	1263.35	1267.52	1270.05	1271.26	1269.75
35.0	1181.11	1196.61	1207.28	1217.10	1225.54	1232.60	1237.77	1240.89	1242.28	1240.40
37.5	1145.86	1158.77	1171.44	1183.24	1193.51	1201.91	1208.04	1211.73	1213.29	1211.03
40.0	1104.69	1120.30	1135.41	1149.19	1161.27	1171.02	1178.23	1182.55	1184.31	1181.59
42.5	1063.23	1081.63	1099.19	1115.14	1126.55	1135.08	1141.42	1145.21	1146.82	1144.16
45.0	1021.82	1042.96	1060.07	1073.87	1086.00	1095.78	1103.17	1107.52	1109.33	1106.38
47.5	980.21	998.65	1015.82	1031.67	1045.35	1056.57	1064.83	1069.84	1071.84	1068.61
50.0	931.39	952.13	971.65	989.49	1004.84	1017.27	1026.55	1032.17	1034.35	1030.86
52.5	882.72	906.02	927.67	947.46	957.97	964.79	969.89	972.90	974.07	971.30
55.0	834.43	860.14	876.06	887.01	896.39	903.87	909.37	912.61	913.79	910.74
57.5	784.96	799.42	812.96	824.87	835.08	843.09	848.92	852.33	853.51	850.19
60.0	719.80	735.60	750.21	763.08	774.00	782.50	788.55	792.08	793.23	789.66
62.5	655.63	672.61	688.11	700.42	702.67	704.21	705.28	705.74	705.97	703.56
65.0	592.50	607.22	610.42	612.97	615.36	616.91	617.97	618.40	618.71	616.50
67.5	517.11	520.57	523.52	526.04	528.22	529.78	530.71	531.08	531.44	529.47
70.0	431.67	434.67	437.32	439.52	441.39	442.77	443.54	443.78	444.18	442.49
72.5	347.41	349.65	351.68	361.00	368.39	373.88	377.51	379.38	380.20	378.01
75.0	270.75	282.59	292.42	300.41	306.61	311.21	314.22	315.65	316.22	314.20
77.5	216.51	225.98	233.81	240.19	245.10	248.69	250.97	251.94	252.24	250.40
80.0	163.33	170.11	175.74	180.34	183.82	186.30	187.77	188.24	188.25	186.62
82.5	112.19	119.44	125.83	131.26	135.54	138.74	140.81	141.75	141.93	140.46
85.0	75.55	80.47	84.80	88.47	91.37	93.52	94.89	95.51	95.60	94.58
87.5	39.28	41.80	43.98	45.83	47.27	48.34	48.99	49.29	49.28	48.70
90.0	3.20	3.26	3.26	3.24	3.22	3.18	3.10	3.06	2.95	2.83

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46
2.5	1433.19	1433.17	1433.16	1433.13	1433.01	1432.91	1432.84	1432.79	1432.77	1432.73
5.0	1430.92	1430.65	1430.32	1429.94	1429.38	1428.88	1428.27	1427.63	1427.08	1426.61
7.5	1428.43	1427.87	1426.92	1425.85	1424.51	1423.19	1421.91	1420.51	1419.13	1417.90
10.0	1425.84	1424.63	1422.95	1420.96	1418.90	1416.35	1413.86	1411.48	1408.95	1406.66
12.5	1414.58	1413.46	1412.01	1410.51	1408.82	1407.35	1404.53	1400.49	1396.62	1393.00
15.0	1402.55	1400.72	1398.55	1395.85	1393.15	1390.33	1387.62	1385.16	1382.20	1376.81
17.5	1390.53	1387.77	1384.47	1380.68	1376.59	1372.37	1368.09	1363.99	1360.34	1357.35
20.0	1378.18	1374.66	1370.07	1364.91	1359.28	1353.22	1347.09	1341.17	1335.70	1331.03
22.5	1358.09	1354.88	1350.93	1346.73	1341.19	1333.10	1324.80	1316.78	1309.21	1302.45
25.0	1336.91	1332.81	1327.71	1321.97	1315.65	1309.02	1301.45	1290.87	1280.94	1271.92
27.5	1315.71	1310.60	1304.30	1296.82	1288.61	1279.90	1271.24	1263.08	1250.98	1239.44
30.0	1294.56	1288.22	1280.59	1271.39	1261.04	1250.10	1239.06	1228.28	1218.50	1205.07
32.5	1265.78	1260.20	1253.43	1245.66	1233.05	1219.79	1206.01	1192.63	1179.99	1169.03
35.0	1235.69	1228.98	1220.82	1211.28	1200.47	1188.90	1172.37	1156.05	1140.55	1126.57
37.5	1205.59	1197.83	1188.12	1176.65	1163.86	1150.27	1136.84	1118.83	1100.10	1082.83
40.0	1175.37	1166.56	1155.26	1141.89	1127.00	1111.03	1094.76	1078.86	1058.84	1038.37
42.5	1138.40	1130.41	1120.11	1107.19	1089.94	1071.56	1052.52	1033.55	1015.68	993.04
45.0	1100.03	1090.90	1079.46	1065.64	1050.28	1032.07	1010.11	987.98	966.96	947.04
47.5	1061.60	1051.52	1038.66	1023.25	1005.98	987.37	967.66	942.32	917.86	894.95
50.0	1023.24	1012.19	998.06	981.07	961.79	940.91	918.87	896.78	869.00	842.42
52.5	966.15	959.33	950.90	939.03	917.88	894.70	870.14	845.16	820.33	790.02
55.0	905.15	897.69	888.40	877.63	865.78	849.07	822.16	794.30	766.47	738.16
57.5	844.21	836.16	826.10	814.35	801.37	787.31	772.82	744.13	713.31	683.09
60.0	783.35	774.82	764.05	751.46	737.39	722.14	706.18	689.74	661.35	628.08
62.5	700.48	696.76	692.50	687.87	673.98	657.74	640.57	622.68	604.41	574.39
65.0	613.75	610.24	606.23	601.78	596.73	591.40	575.99	556.80	537.39	518.16
67.5	527.06	523.95	520.28	516.28	511.59	506.61	501.08	492.58	472.33	451.84

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CANDELA TABULATION - (Cont.)

70.0	440.47	437.84	434.67	431.21	427.18	422.78	417.95	412.46	406.43	388.24
72.5	374.39	369.10	362.17	353.70	343.35	339.86	336.07	331.79	327.09	321.81
75.0	310.97	306.35	300.29	292.96	284.01	273.53	261.30	252.86	250.21	247.01
77.5	247.63	243.75	238.70	232.62	225.33	216.90	207.10	195.70	182.57	175.13
80.0	184.36	181.27	177.35	172.66	167.22	161.04	154.00	145.96	136.56	125.60
82.5	138.09	134.67	130.18	124.69	118.27	111.05	103.18	97.43	92.26	86.07
85.0	92.94	90.59	87.51	83.75	79.36	74.44	69.07	63.41	57.56	51.78
87.5	47.81	46.56	44.93	42.97	40.69	38.13	35.35	32.42	29.40	26.42
90.0	2.69	2.57	2.40	2.26	2.12	1.97	1.83	1.69	1.55	1.43

Vert. Angles	Horizontal Angles									
	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0.0	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46
2.5	1432.67	1432.64	1432.66	1432.71	1432.81	1432.94	1433.11	1432.48	1431.90	1431.36
5.0	1426.19	1425.89	1425.71	1425.65	1425.72	1425.91	1426.22	1425.00	1423.91	1422.95
7.5	1416.79	1415.92	1415.26	1414.75	1414.53	1414.62	1415.01	1413.26	1411.82	1410.70
10.0	1404.59	1402.90	1401.44	1400.46	1399.96	1399.95	1400.42	1398.15	1396.37	1395.12
12.5	1389.66	1386.72	1384.32	1382.60	1381.52	1381.23	1381.73	1379.02	1377.12	1376.04
15.0	1371.92	1367.49	1363.93	1361.17	1359.47	1358.86	1359.35	1356.24	1354.24	1353.35
17.5	1351.47	1345.44	1340.36	1336.53	1334.00	1332.91	1333.35	1329.88	1327.93	1327.46
20.0	1327.32	1320.50	1313.74	1308.56	1305.12	1303.58	1303.96	1300.16	1298.31	1298.41
22.5	1297.03	1292.87	1284.13	1277.45	1272.91	1270.62	1270.85	1266.86	1265.40	1266.21
25.0	1264.26	1258.52	1251.69	1243.29	1237.39	1234.45	1234.52	1230.31	1229.13	1230.94
27.5	1229.33	1221.54	1216.18	1206.05	1198.88	1194.99	1194.83	1190.50	1189.89	1192.68
30.0	1192.39	1182.13	1174.92	1166.21	1157.20	1152.46	1152.12	1147.67	1147.62	1151.84
32.5	1153.53	1140.67	1130.96	1123.53	1112.95	1107.03	1106.31	1101.91	1102.74	1108.17
35.0	1112.93	1097.06	1085.00	1077.51	1065.65	1058.56	1057.48	1053.13	1054.74	1061.15
37.5	1068.27	1051.70	1036.76	1026.87	1015.93	1007.56	1006.03	1001.86	1004.58	1009.96
40.0	1020.31	1004.68	986.69	974.38	963.68	953.64	951.58	947.60	951.64	956.49
42.5	971.27	953.44	934.66	919.51	909.00	897.35	894.73	891.14	896.62	900.93
45.0	921.52	899.82	881.23	862.66	852.24	838.84	835.68	832.41	839.29	843.44
47.5	871.15	845.71	825.37	804.55	791.90	778.31	774.22	771.51	778.35	784.87
50.0	818.77	790.73	766.67	745.13	729.40	715.75	710.97	708.94	715.84	725.01
52.5	762.18	735.94	707.50	684.66	665.93	652.04	646.31	645.20	652.32	664.55
55.0	706.44	678.87	648.20	623.55	601.64	587.52	580.91	580.72	588.29	603.57
57.5	651.36	619.48	589.81	560.80	537.53	522.46	514.89	516.05	524.72	541.59
60.0	596.20	561.82	531.52	499.12	474.49	458.89	450.15	452.94	462.56	481.14
62.5	539.57	505.98	471.60	440.03	413.73	397.58	388.75	392.41	403.18	423.54
65.0	485.28	449.89	414.78	384.21	356.89	340.85	332.43	336.63	347.91	369.85
67.5	431.80	395.61	361.53	330.27	304.31	289.17	282.11	286.11	297.34	318.86
70.0	367.68	345.18	309.93	279.91	256.28	241.27	235.15	239.43	251.80	271.79
72.5	306.95	287.25	262.73	234.04	211.69	196.19	191.87	196.38	210.45	229.42
75.0	243.01	231.15	214.98	190.20	167.80	153.30	151.53	156.90	170.56	188.44
77.5	174.52	173.13	164.53	150.22	127.06	113.64	114.33	120.83	133.64	150.91
80.0	113.00	112.88	114.09	105.27	89.36	77.61	80.59	87.62	97.99	106.64
82.5	78.36	69.51	63.83	63.94	54.64	45.29	49.28	57.24	63.47	65.53
85.0	45.93	41.77	36.53	30.35	25.91	20.01	24.38	30.01	31.38	31.16
87.5	23.40	20.20	16.79	13.18	10.49	9.50	6.83	11.71	11.94	13.44
90.0	1.34	1.22	1.08	0.92	0.82	0.81	0.89	1.95	2.04	2.12

Vert. Angles	Horizontal Angles									
	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0.0	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46
2.5	1430.87	1430.44	1430.06	1429.74	1429.41	1429.10	1428.84	1428.63	1428.48	1428.39

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CANDELA TABULATION - (Cont.)

5.0	1422.14	1421.48	1420.97	1420.63	1420.38	1420.25	1420.26	1420.31	1420.33	1420.47
7.5	1409.90	1409.31	1408.99	1408.98	1409.12	1409.45	1409.90	1410.37	1410.96	1411.64
10.0	1394.38	1394.16	1394.24	1394.77	1395.58	1396.71	1397.94	1399.34	1400.80	1402.05
12.5	1375.62	1375.91	1376.82	1378.22	1380.02	1382.20	1384.67	1386.00	1386.39	1386.95
15.0	1353.57	1354.67	1356.73	1359.37	1362.51	1363.38	1363.98	1365.00	1366.30	1367.77
17.5	1328.38	1330.62	1333.93	1337.11	1337.64	1338.98	1340.82	1343.08	1345.46	1348.02
20.0	1300.31	1303.80	1307.39	1308.15	1310.06	1312.82	1316.25	1320.04	1324.01	1327.76
22.5	1269.21	1274.27	1275.03	1277.18	1280.65	1285.17	1290.41	1296.06	1301.78	1305.31
25.0	1235.37	1238.30	1240.22	1244.11	1249.64	1256.24	1263.50	1268.47	1272.72	1276.98
27.5	1198.47	1199.59	1203.31	1209.36	1216.97	1225.35	1230.51	1236.22	1242.27	1248.21
30.0	1155.89	1158.58	1164.47	1172.74	1182.00	1188.18	1195.59	1203.39	1211.39	1219.14
32.5	1110.75	1115.61	1123.62	1134.60	1141.45	1150.17	1159.86	1170.16	1180.15	1189.76
35.0	1063.59	1070.45	1081.39	1090.23	1099.95	1111.24	1123.62	1136.38	1145.11	1153.40
37.5	1014.25	1023.70	1035.05	1045.06	1057.54	1071.72	1085.65	1096.22	1106.80	1116.95
40.0	963.12	975.32	985.79	998.85	1014.50	1029.91	1042.47	1055.53	1068.37	1080.37
42.5	910.06	923.00	935.61	951.95	969.62	983.92	999.04	1014.63	1029.74	1043.72
45.0	855.77	868.66	884.63	904.60	920.38	937.55	955.64	973.74	988.22	999.63
47.5	799.34	813.76	833.32	852.24	870.98	891.20	912.24	927.33	941.65	954.71
50.0	740.20	758.40	780.37	799.74	821.77	844.91	862.03	879.06	895.23	910.02
52.5	681.05	703.04	724.46	747.55	773.01	792.40	811.96	831.21	849.05	865.42
55.0	622.14	646.51	669.50	696.08	718.70	740.66	762.55	783.75	794.14	800.01
57.5	564.20	588.64	615.40	641.38	665.30	689.77	711.84	719.24	726.20	732.66
60.0	507.13	532.63	561.50	586.81	613.34	634.36	642.77	650.96	658.67	665.68
62.5	449.72	478.81	505.87	533.84	556.09	565.53	574.75	583.61	591.76	598.72
65.0	395.56	424.59	452.89	477.94	487.98	498.02	507.86	516.09	520.38	524.11
67.5	345.33	372.35	400.72	411.24	421.79	432.21	438.09	442.53	446.58	450.06
70.0	296.10	323.97	336.71	347.10	356.64	361.64	366.10	369.83	373.46	376.41
72.5	251.29	266.87	276.02	283.75	287.93	291.84	295.29	298.00	300.85	308.41
75.0	205.24	211.07	216.27	218.93	221.34	223.51	230.02	239.08	246.67	252.90
77.5	155.53	156.99	156.77	156.57	162.18	172.21	180.62	187.51	193.08	197.74
80.0	107.67	104.01	102.95	112.28	120.26	126.87	132.19	136.49	139.97	142.90
82.5	61.42	64.67	70.82	76.05	79.88	82.62	86.02	91.81	97.08	101.74
85.0	35.00	38.21	40.58	45.11	49.46	53.76	57.93	61.85	65.40	68.56
87.5	16.10	18.74	21.25	23.59	25.82	28.02	30.13	32.11	33.90	35.49
90.0	2.17	2.21	2.30	2.37	2.43	2.46	2.48	2.48	2.48	2.49

**Vert.
Angles**

Horizontal Angles

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0.0	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46
2.5	1428.25	1428.11	1428.02	1427.99	1428.02	1427.96	1427.96	1428.01	1428.12	1428.25
5.0	1420.50	1420.56	1420.62	1420.55	1420.59	1420.46	1420.45	1420.36	1420.31	1420.34
7.5	1412.18	1412.74	1412.99	1413.12	1413.15	1412.95	1412.74	1412.49	1412.18	1411.92
10.0	1403.32	1404.44	1405.27	1405.70	1405.72	1405.44	1404.95	1404.38	1403.62	1402.68
12.5	1387.54	1388.26	1388.90	1389.22	1389.16	1388.93	1388.67	1388.49	1388.15	1387.86
15.0	1369.31	1370.55	1371.75	1372.48	1372.59	1372.21	1371.74	1371.06	1370.17	1369.15
17.5	1350.55	1352.69	1354.61	1355.74	1356.03	1355.50	1354.80	1353.40	1351.80	1349.86
20.0	1331.43	1334.76	1337.18	1339.00	1339.47	1338.80	1337.57	1335.65	1333.08	1329.96
22.5	1308.03	1310.69	1312.79	1314.51	1314.87	1314.26	1313.26	1311.76	1309.87	1307.65
25.0	1280.88	1284.56	1287.45	1289.71	1290.27	1289.43	1287.94	1285.69	1282.70	1279.21
27.5	1253.56	1258.31	1262.09	1264.87	1265.67	1264.57	1262.53	1259.46	1255.25	1250.41
30.0	1226.05	1231.91	1236.77	1240.04	1241.08	1239.71	1237.13	1232.98	1227.49	1221.20
32.5	1195.74	1200.93	1205.22	1208.34	1209.35	1208.08	1205.67	1202.06	1197.11	1191.59
35.0	1160.98	1167.35	1172.61	1176.36	1177.63	1176.17	1173.17	1168.57	1162.53	1155.40
37.5	1126.15	1133.85	1139.99	1144.35	1145.91	1144.23	1140.69	1135.14	1127.88	1118.98
40.0	1091.11	1100.24	1107.31	1112.27	1114.19	1112.22	1108.14	1101.57	1092.97	1082.51

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CANDELA TABULATION - (Cont.)

42.5	1053.55	1061.25	1067.15	1071.39	1073.11	1071.31	1067.91	1062.44	1055.39	1046.00
45.0	1009.95	1018.64	1025.42	1030.13	1032.02	1029.99	1026.04	1019.63	1011.47	1001.54
47.5	966.39	976.19	983.64	988.90	990.94	988.68	984.08	976.94	967.44	956.12
50.0	923.01	933.71	941.94	947.69	949.85	947.38	942.19	934.12	923.62	910.84
52.5	872.42	876.46	879.80	882.51	883.74	882.26	880.04	876.74	872.79	865.67
55.0	805.26	809.77	813.39	816.25	817.63	816.07	813.65	810.09	805.65	800.25
57.5	738.38	743.24	747.05	750.00	751.52	749.90	747.31	743.60	738.78	732.97
60.0	671.78	676.90	680.78	683.78	685.40	683.75	681.06	677.29	672.18	665.99
62.5	602.03	604.86	607.10	608.95	610.15	609.01	607.39	605.26	602.46	599.01
65.0	527.38	530.02	532.15	533.81	534.90	533.94	532.47	530.41	527.81	524.47
67.5	452.96	455.36	457.27	458.70	459.65	458.89	457.59	455.76	453.38	450.47
70.0	378.82	380.85	382.47	383.61	384.40	383.86	382.79	381.25	379.25	376.85
72.5	314.35	318.99	322.38	324.52	325.62	324.75	322.67	319.33	314.76	308.84
75.0	257.75	261.50	264.21	265.90	266.83	266.11	264.47	261.77	258.09	253.31
77.5	201.39	204.14	206.09	207.30	208.04	207.49	206.31	204.35	201.68	198.15
80.0	145.23	146.89	148.02	148.71	149.25	148.88	148.21	147.04	145.46	143.32
82.5	105.61	108.55	110.63	111.90	112.56	112.03	110.76	108.65	105.78	102.08
85.0	71.18	73.16	74.57	75.42	75.86	75.50	74.65	73.22	71.28	68.78
87.5	36.81	37.81	38.52	38.95	39.16	38.98	38.55	37.83	36.85	35.60
90.0	2.49	2.49	2.49	2.48	2.46	2.46	2.46	2.46	2.46	2.46

**Vert.
Angles**

Horizontal Angles

	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0.0	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46	1435.46
2.5	1428.34	1428.50	1428.71	1428.98	1429.30	1429.66	1430.03	1430.46	1430.94	1431.46
5.0	1420.37	1420.53	1420.66	1420.83	1421.14	1421.52	1421.94	1422.52	1423.24	1424.11
7.5	1411.53	1411.16	1410.86	1410.62	1410.54	1410.63	1410.86	1411.37	1412.13	1413.08
10.0	1401.66	1400.53	1399.49	1398.61	1397.78	1397.25	1396.96	1397.09	1397.48	1398.40
12.5	1387.69	1387.71	1386.71	1384.65	1382.69	1381.12	1380.03	1379.42	1379.42	1380.13
15.0	1368.15	1367.24	1366.45	1366.03	1365.39	1362.61	1360.45	1358.87	1358.22	1358.37
17.5	1347.75	1345.57	1343.67	1342.08	1341.13	1340.92	1338.12	1335.21	1333.46	1333.04
20.0	1326.48	1322.97	1319.56	1316.58	1314.04	1312.35	1311.90	1308.77	1305.82	1304.48
22.5	1304.69	1299.41	1294.22	1289.23	1285.08	1281.85	1279.92	1279.36	1275.03	1272.56
25.0	1275.63	1272.08	1267.58	1260.68	1254.42	1249.15	1245.42	1243.63	1241.26	1237.70
27.5	1245.12	1239.61	1234.55	1230.10	1222.01	1214.59	1208.89	1205.34	1204.47	1199.65
30.0	1214.02	1206.58	1199.36	1192.62	1187.13	1178.41	1170.23	1164.75	1162.17	1158.69
32.5	1182.44	1172.98	1163.25	1154.24	1146.38	1140.24	1129.78	1121.78	1117.29	1115.12
35.0	1147.32	1138.69	1126.56	1114.97	1104.37	1095.73	1087.56	1076.96	1070.16	1067.96
37.5	1109.12	1098.59	1088.31	1074.76	1061.45	1049.91	1041.07	1030.25	1020.99	1016.80
40.0	1070.74	1057.99	1045.05	1032.76	1017.66	1003.07	991.21	981.89	969.74	963.30
42.5	1032.19	1017.23	1001.74	986.48	972.37	955.29	940.21	929.12	916.79	907.75
45.0	990.47	976.42	958.46	940.30	922.89	907.02	888.45	874.04	862.16	850.21
47.5	943.33	929.57	914.99	894.00	873.54	854.73	836.12	817.92	805.61	791.30
50.0	896.37	880.61	864.06	847.49	824.35	801.92	782.26	761.59	745.40	731.30
52.5	849.63	832.03	813.33	794.30	775.54	749.87	726.35	704.85	684.92	670.41
55.0	794.38	783.76	762.97	741.57	720.23	698.27	671.02	647.41	624.74	608.76
57.5	726.43	719.04	711.41	689.71	665.94	642.71	617.16	589.48	565.19	545.34
60.0	658.93	650.94	642.52	633.62	612.69	586.88	562.50	533.31	506.80	483.40
62.5	592.11	583.73	574.65	564.90	554.92	532.88	505.66	479.35	449.15	424.14
65.0	520.81	516.35	507.94	497.74	486.95	475.86	451.30	424.09	394.79	368.34
67.5	447.07	442.94	438.31	432.28	421.15	409.67	398.06	370.35	344.29	316.45
70.0	373.99	370.43	366.41	361.83	356.44	346.24	334.57	320.41	293.68	269.14
72.5	301.39	298.79	295.68	292.19	288.15	283.43	274.79	263.72	247.31	226.76
75.0	247.20	239.73	230.55	224.10	221.90	219.06	215.84	209.10	200.92	184.46
77.5	193.63	188.14	181.32	172.93	163.04	157.33	156.79	156.04	152.50	145.36

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CANDELA TABULATION - (Cont.)

80.0	140.57	137.23	133.05	127.71	121.10	113.12	103.34	103.54	105.83	102.91
82.5	97.63	92.57	87.00	83.57	80.69	76.77	71.20	64.59	60.66	63.77
85.0	65.77	62.35	58.58	54.44	50.06	45.66	41.01	38.37	34.91	30.82
87.5	34.08	32.35	30.45	28.35	26.12	23.86	21.45	18.88	16.28	13.62
90.0	2.46	2.46	2.46	2.45	2.41	2.36	2.28	2.20	2.17	2.12

Vert. Horizontal Angles

	<u>350</u>	<u>355</u>	<u>360</u>
0.0	1435.46	1435.46	1435.46
2.5	1432.03	1432.63	1433.27
5.0	1425.11	1426.24	1427.48
7.5	1414.33	1415.87	1417.69
10.0	1399.82	1401.75	1404.15
12.5	1381.48	1383.62	1386.53
15.0	1359.61	1361.94	1365.34
17.5	1333.95	1336.31	1340.16
20.0	1304.91	1307.28	1311.58
22.5	1272.40	1274.57	1279.21
25.0	1236.68	1238.71	1243.76
27.5	1197.84	1199.38	1204.64
30.0	1155.66	1156.89	1162.46
32.5	1110.84	1111.39	1117.13
35.0	1062.96	1062.92	1068.83
37.5	1012.48	1011.54	1017.52
40.0	959.40	957.70	963.90
42.5	903.89	900.85	907.01
45.0	846.09	841.81	847.75
47.5	785.10	780.79	786.58
50.0	722.10	717.74	723.20
52.5	658.14	653.24	658.31
55.0	593.80	587.91	592.31
57.5	529.52	522.30	525.85
60.0	466.67	457.73	460.30
62.5	406.31	395.51	397.32
65.0	349.80	338.24	339.37
67.5	297.51	286.61	287.83
70.0	249.99	239.26	240.07
72.5	206.47	195.54	195.90
75.0	166.27	155.35	154.93
77.5	129.52	118.32	117.49
80.0	93.82	84.20	83.52
82.5	60.23	54.47	53.30
85.0	30.76	29.09	28.45
87.5	11.96	11.72	9.41
90.0	2.03	1.96	1.06

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	523.29	N.A.	12.90
0-30	1111.53	N.A.	27.50
0-40	1822.69	N.A.	45.00
0-60	3233.03	N.A.	79.90
0-80	3979.04	N.A.	98.30
0-90	4046.51	N.A.	100.00
10-90	3911.06	N.A.	96.70
20-40	1299.4	N.A.	32.10
20-50	2040.94	N.A.	50.40
40-70	1900.36	N.A.	47.00
60-80	746.01	N.A.	18.40
70-80	255.99	N.A.	6.30
80-90	67.47	N.A.	1.70
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	4046.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.45
10-20	387.85
20-30	588.24
30-40	711.16
40-50	741.54
50-60	668.80
60-70	490.02
70-80	255.99
80-90	67.47
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

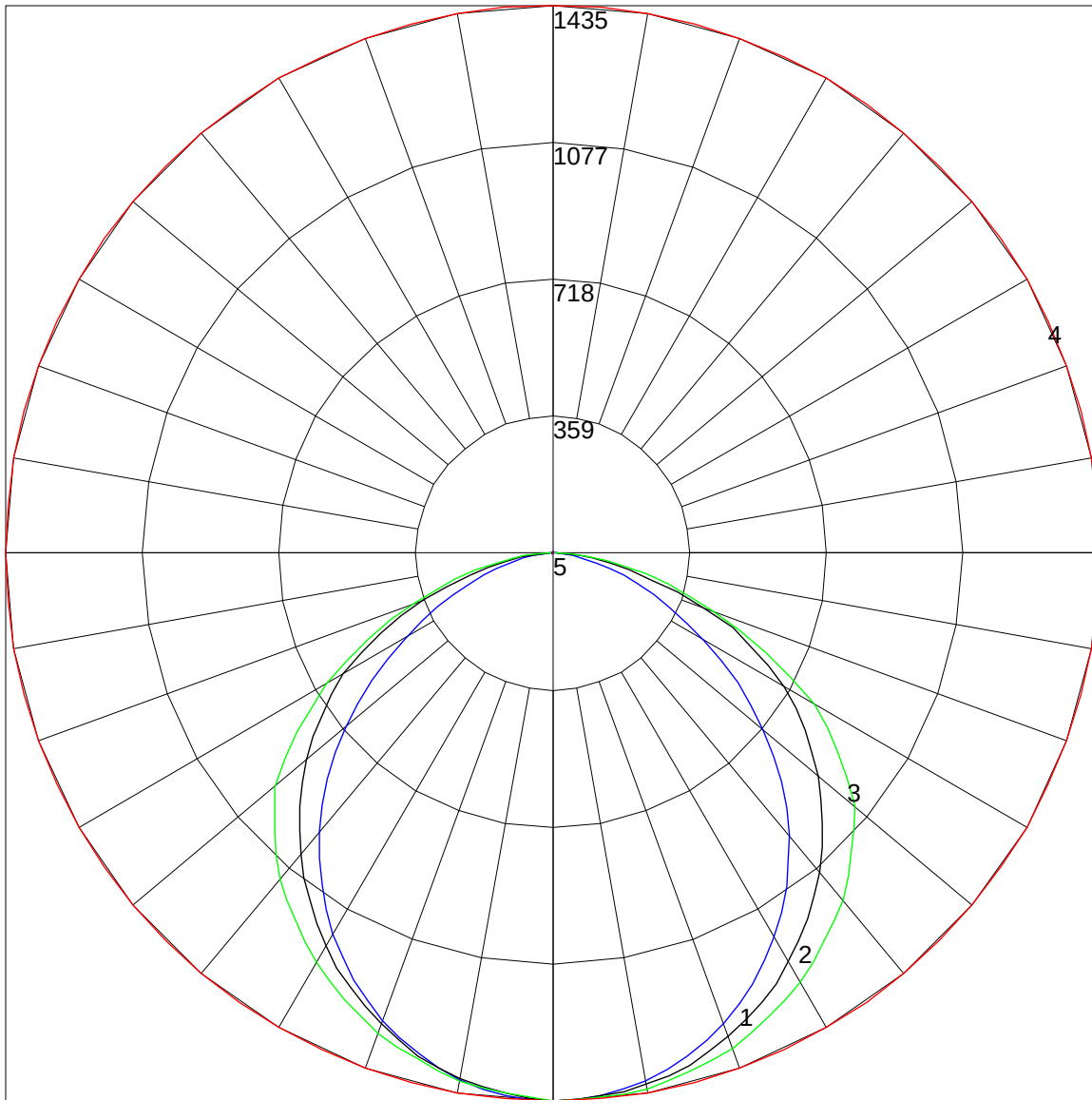
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1435.46 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (45 - 225)
3 - Vertical Plane Through Horizontal Angles (90 - 270)
4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)
5 - Horizontal Cone Through Vertical Angle (90)