

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P242404

Luminaire Tested: S122RDRP-S675D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D840-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

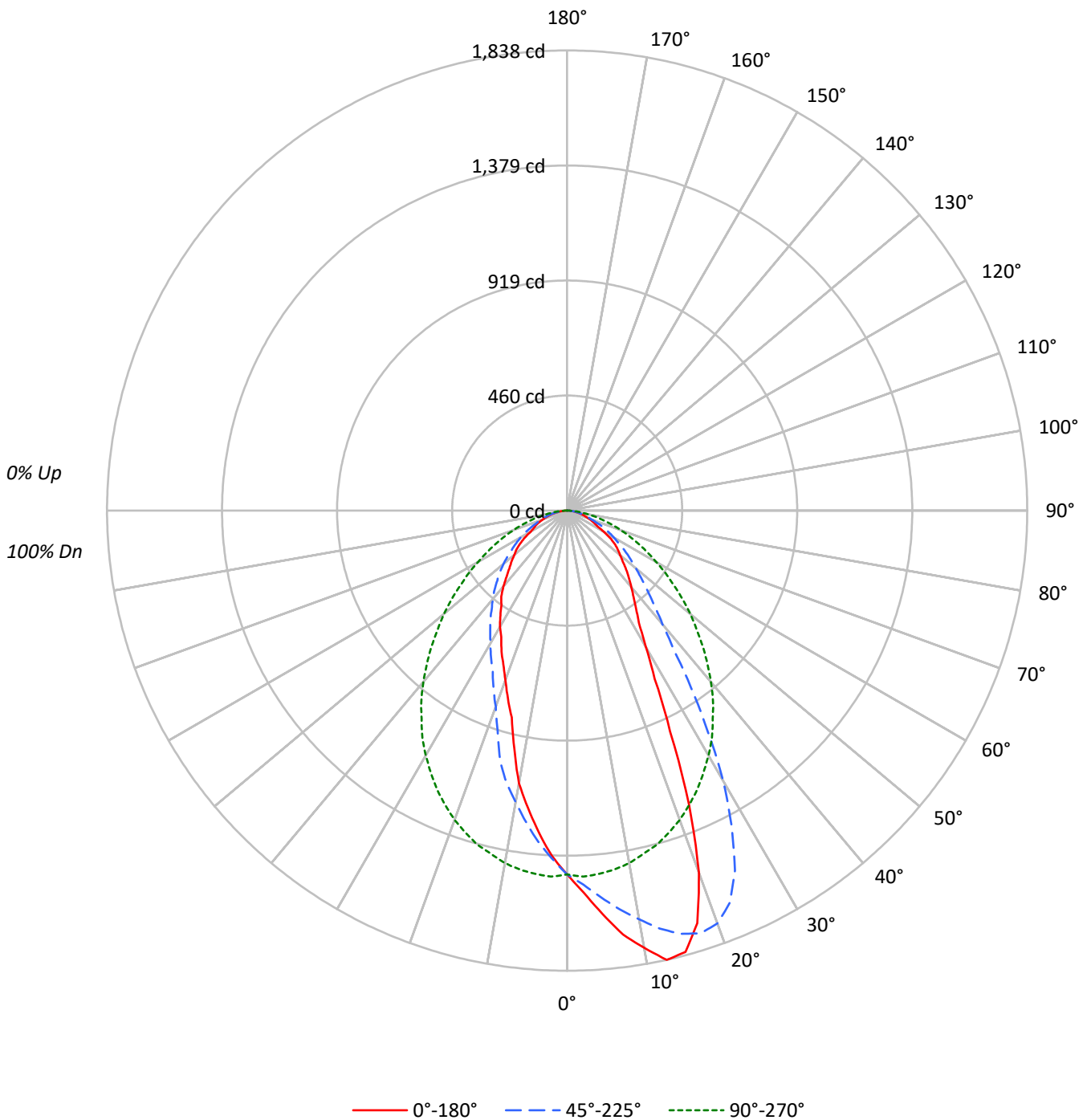
Lumens per Lamp: N/A
Luminaire Lumens: 2511.3 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78					76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60					59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54					52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49					47				
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44					42				
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40					39				
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37					35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27682	27682	27682	27682	27682
5°	30916	29641	27855	25382	24698
10°	34300	32064	27658	22873	21409
15°	35986	34513	27255	20404	16868
20°	31198	35578	26653	16899	14597
25°	20462	33335	25832	14794	13033
30°	13773	27445	24834	13472	11796
35°	11154	20044	23579	12422	10638
40°	9919	14728	22212	11463	9844
45°	8978	12243	20607	10624	8787
50°	8170	10609	19018	9817	8140
55°	7681	9391	17255	8870	7578
60°	6427	8175	15638	8137	6347
65°	5418	7283	14202	7238	6143
70°	5007	5792	12681	6382	5792
75°	4681	5240	11039	6020	5350
80°	4322	4761	9082	5265	4761
85°	3978	4087	7168	4196	4196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 30019 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	5.5
10°-20°	384.7	15.3
20°-30°	495.2	19.7
30°-40°	469.7	18.7
40°-50°	402.5	16.0
50°-60°	306.6	12.2
60°-70°	193.4	7.7
70°-80°	96.5	3.8
80°-90°	24.8	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1017.7	40.5
0°-40°	1487.5	59.2
0°-60°	2196.6	87.5
0°-90°	2511.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2511.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1453	1453	1453	1453	1453	
5°	1617	1550	1457	1328	1292	159
15°	1825	1750	1382	1035	855	496
25°	974	1586	1229	704	620	460
35°	480	862	1014	534	458	305
45°	333	454	765	394	326	258
55°	231	283	520	267	228	204
65°	120	162	315	161	136	122
75°	64	71	150	82	73	67
85°	18	19	33	19	19	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3
2.5°	1527.0	1528.5	1530.0	1526.5	1526.5	1523.5	1516.9	1511.8	1497.7	1495.7	1495.7
5°	1616.9	1615.9	1617.9	1611.3	1602.2	1600.2	1590.6	1578.0	1564.9	1550.2	1547.2
7.5°	1707.8	1701.7	1699.2	1702.2	1692.6	1679.5	1663.3	1648.2	1625.5	1606.8	1595.2
10°	1773.4	1790.1	1780.0	1762.3	1765.8	1742.1	1729.5	1707.8	1689.6	1657.8	1650.7
12.5°	1838.1	1842.1	1840.6	1832.5	1825.9	1811.3	1793.1	1774.9	1737.6	1709.8	1680.5
15°	1824.9	1834.5	1837.0	1834.0	1836.5	1835.5	1826.4	1810.8	1781.5	1750.2	1722.9
17.5°	1728.0	1739.1	1748.2	1756.2	1768.9	1793.6	1801.2	1804.2	1792.1	1769.9	1747.2
20°	1539.1	1528.0	1574.5	1598.2	1618.4	1668.9	1712.3	1729.0	1755.7	1755.2	1750.2
22.5°	1271.5	1277.5	1321.0	1350.3	1418.9	1469.4	1520.4	1594.7	1652.7	1695.7	1721.9
25°	973.6	992.8	1036.7	1075.1	1140.7	1234.6	1320.0	1418.9	1512.4	1586.1	1656.3
27.5°	757.4	760.0	799.9	838.7	879.1	960.4	1074.6	1193.2	1326.5	1422.5	1543.7
30°	626.2	623.1	637.8	659.5	692.8	752.4	833.2	949.3	1082.1	1247.8	1395.2
32.5°	533.2	534.2	544.3	559.0	585.2	620.6	669.6	758.4	882.2	1044.3	1223.5
35°	479.7	479.2	487.3	498.9	510.5	536.3	574.1	623.6	710.0	862.0	1038.7
37.5°	435.3	437.8	441.3	448.9	463.0	478.2	501.9	536.8	602.4	696.8	855.4
40°	398.9	399.9	405.5	411.5	419.1	430.2	448.9	475.7	520.6	592.3	700.9
42.5°	365.6	366.6	370.1	375.7	381.2	392.4	407.0	429.2	463.6	515.6	600.4
45°	333.3	333.3	336.8	339.3	345.9	356.0	368.6	387.8	413.1	454.5	514.0
47.5°	302.0	302.0	304.5	309.0	313.6	321.7	334.8	350.9	369.1	403.0	456.0
50°	275.7	276.2	277.7	281.3	283.8	290.9	300.5	314.1	333.3	358.0	400.4
52.5°	254.5	254.0	256.0	257.0	258.5	263.1	269.6	281.3	297.9	318.6	352.0
55°	231.3	229.3	232.3	234.8	236.3	238.3	242.4	250.0	264.6	282.8	309.0
57.5°	204.0	203.0	204.5	207.0	211.6	216.6	219.2	224.2	231.8	245.9	273.7
60°	168.7	168.7	173.2	174.7	180.3	187.3	194.4	198.4	206.0	214.6	233.8
62.5°	137.3	137.9	139.4	140.9	143.4	152.5	163.1	173.2	180.3	188.3	199.5
65°	120.2	121.2	121.2	122.2	124.2	126.2	130.3	137.3	150.0	161.6	171.2
67.5°	105.0	105.0	105.5	106.5	107.1	109.6	111.1	114.6	117.2	130.3	143.4
70°	89.9	91.4	90.9	91.9	92.4	93.4	95.4	97.0	101.5	104.0	111.1
72.5°	75.7	76.8	76.8	77.3	78.8	78.8	80.3	81.8	84.3	86.3	89.4
75°	63.6	63.1	63.6	64.6	65.1	65.6	65.6	67.7	69.2	71.2	73.7
77.5°	51.5	52.0	52.0	52.0	52.0	53.0	53.0	54.0	55.5	56.6	58.1
80°	39.4	39.9	39.4	39.9	40.4	40.9	40.4	40.9	42.4	43.4	43.4
82.5°	28.3	28.3	28.8	28.8	28.8	28.8	29.8	29.8	30.8	30.3	30.8
85°	18.2	17.7	17.7	17.7	18.2	18.7	18.2	18.2	18.7	18.7	18.7
87.5°	8.1	8.6	8.6	8.6	8.6	8.6	8.6	9.1	8.6	9.1	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3
2.5°	1496.7	1492.7	1489.1	1480.0	1475.5	1465.4	1463.9	1463.4	1450.2	1437.6	1434.1
5°	1539.1	1531.0	1518.9	1504.8	1490.1	1475.0	1464.9	1456.8	1436.6	1417.4	1406.3
7.5°	1581.0	1566.4	1547.2	1523.0	1502.3	1478.0	1461.4	1446.2	1418.4	1393.2	1376.5
10°	1629.0	1600.7	1572.9	1536.1	1507.3	1479.0	1452.8	1430.0	1397.7	1361.4	1335.6
12.5°	1658.8	1627.0	1586.1	1550.2	1510.8	1473.0	1435.6	1404.8	1365.4	1327.5	1295.7
15°	1685.1	1651.7	1605.3	1553.8	1505.8	1458.8	1418.4	1382.1	1332.6	1287.6	1250.3
17.5°	1709.3	1663.3	1615.4	1555.8	1502.8	1445.7	1394.7	1349.3	1295.2	1242.2	1199.8
20°	1719.9	1674.4	1616.9	1557.3	1491.7	1421.5	1365.4	1314.9	1255.8	1196.8	1146.3
22.5°	1713.3	1680.5	1614.9	1540.6	1473.0	1398.7	1333.6	1273.0	1205.8	1145.2	1084.7
25°	1679.0	1666.9	1606.3	1528.5	1451.8	1366.4	1293.2	1229.1	1154.3	1089.7	1026.1
27.5°	1615.9	1633.5	1590.6	1506.3	1423.5	1331.6	1251.8	1179.6	1103.3	1031.1	967.5
30°	1515.9	1576.0	1559.8	1483.1	1387.6	1297.7	1205.3	1129.1	1046.3	971.5	908.9
32.5°	1379.0	1488.1	1511.8	1450.7	1351.3	1250.3	1152.3	1076.6	989.2	909.4	848.8
35°	1232.1	1380.6	1448.7	1407.8	1308.9	1202.3	1102.3	1014.0	927.1	849.3	788.7
37.5°	1057.9	1255.8	1360.9	1356.3	1261.9	1153.3	1044.8	957.4	868.0	791.3	728.2
40°	889.2	1108.4	1256.3	1289.2	1212.4	1092.7	982.7	893.3	806.4	731.7	656.4
42.5°	737.7	955.9	1146.3	1209.4	1152.3	1033.7	923.1	828.6	744.8	675.1	597.9
45°	621.1	812.0	1012.4	1114.4	1080.6	970.5	853.9	765.0	685.7	624.6	550.9
47.5°	537.8	676.6	878.1	1011.4	1007.4	902.9	786.7	701.4	626.7	570.1	507.5
50°	468.6	585.8	749.9	906.4	919.5	835.2	726.1	641.8	573.1	513.0	465.1
52.5°	406.5	497.9	641.3	789.8	833.2	763.0	658.0	581.7	515.6	461.5	422.1
55°	354.0	428.7	540.8	681.2	737.7	686.2	592.3	519.6	465.6	419.1	383.8
57.5°	308.0	366.6	460.0	577.7	641.8	607.0	526.7	466.6	418.6	375.2	346.9
60°	265.1	311.1	387.3	481.7	554.4	531.7	465.6	410.5	371.1	334.8	308.5
62.5°	224.7	262.6	325.2	397.4	462.5	456.5	405.5	361.6	328.2	295.9	274.7
65°	187.3	216.1	267.1	327.2	380.7	385.3	346.4	315.1	284.3	258.0	238.3
67.5°	155.0	174.7	213.1	266.1	307.0	321.2	294.9	269.6	244.4	223.2	205.5
70°	125.7	140.9	167.1	208.0	244.9	260.1	246.4	227.7	206.5	189.9	175.2
72.5°	95.9	110.6	128.3	155.5	185.8	202.5	200.0	187.8	171.7	158.6	144.9
75°	76.8	81.3	94.4	114.6	139.4	153.5	157.0	150.0	136.3	125.7	117.7
77.5°	59.6	62.6	69.7	81.8	99.0	111.6	117.2	116.1	106.0	99.0	91.4
80°	45.4	47.0	50.0	54.5	66.7	79.3	82.8	82.8	76.2	73.7	66.1
82.5°	31.8	32.8	34.3	36.4	40.4	51.0	55.0	56.1	52.5	49.0	43.4
85°	19.7	19.2	20.2	21.7	22.7	25.8	31.8	32.8	31.8	27.8	26.3
87.5°	8.6	9.1	9.1	8.6	9.1	9.6	12.1	14.6	12.6	11.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3
2.5°	1427.5	1424.0	1417.4	1407.3	1401.3	1390.7	1383.6	1387.6	1388.6	1387.6	1386.6
5°	1394.2	1383.6	1368.9	1354.8	1341.7	1327.5	1319.5	1315.9	1308.9	1304.8	1302.8
7.5°	1356.3	1340.7	1320.0	1297.2	1276.0	1255.8	1246.7	1239.7	1226.5	1219.5	1212.9
10°	1312.9	1284.1	1263.4	1231.1	1211.4	1182.6	1162.9	1163.4	1143.7	1132.6	1124.5
12.5°	1264.9	1232.6	1194.7	1166.5	1137.2	1115.5	1090.7	1078.6	1057.4	1046.8	1021.5
15°	1210.9	1174.0	1137.7	1098.3	1070.5	1034.7	1000.3	958.4	924.6	895.3	887.2
17.5°	1153.3	1107.9	1072.0	1031.6	988.2	923.1	880.6	854.9	834.7	819.5	807.4
20°	1093.7	1047.3	1008.4	938.7	874.6	833.7	804.4	785.7	764.5	747.8	738.8
22.5°	1031.1	982.1	925.6	845.8	799.4	768.5	743.3	721.1	708.5	696.3	688.3
25°	972.6	919.5	832.2	778.6	738.3	703.9	685.7	672.6	657.5	639.8	631.7
27.5°	911.5	827.1	761.0	722.1	680.7	659.0	643.3	621.6	608.0	601.4	592.3
30°	841.3	756.9	708.0	664.5	637.3	612.5	593.3	582.2	569.1	555.5	549.9
32.5°	763.0	699.9	653.4	619.1	591.3	571.1	557.0	537.3	528.7	521.6	508.5
35°	700.9	649.9	607.0	577.7	551.4	534.2	516.6	506.0	488.8	481.7	477.2
37.5°	644.3	599.9	567.6	535.3	515.1	494.9	484.8	467.1	460.5	449.4	440.3
40°	597.9	554.4	523.6	498.4	475.2	461.0	447.4	433.8	422.7	418.1	406.5
42.5°	550.4	517.1	486.3	458.0	444.4	429.2	411.0	401.9	390.3	382.3	376.2
45°	507.5	476.2	449.9	427.2	410.0	394.4	383.3	366.6	360.0	345.4	339.3
47.5°	469.6	439.3	414.1	391.8	374.7	365.6	349.4	334.8	325.7	315.6	307.0
50°	428.7	404.5	380.2	361.0	345.9	331.3	314.6	308.0	291.9	287.3	282.8
52.5°	391.3	368.6	346.9	328.2	313.1	298.9	284.8	275.7	266.1	261.6	258.5
55°	357.0	334.8	313.6	296.9	281.8	267.1	258.0	247.4	242.4	238.8	234.8
57.5°	321.7	301.5	284.8	267.6	252.5	240.4	229.3	223.2	218.1	214.1	208.5
60°	288.3	269.1	254.5	238.8	223.2	213.6	205.5	197.9	191.9	184.8	182.8
62.5°	253.0	236.8	223.7	208.5	195.4	186.8	179.3	172.2	164.6	153.5	150.5
65°	221.2	208.0	193.9	181.3	169.2	160.6	149.5	141.4	138.4	137.3	136.8
67.5°	191.9	179.3	167.1	154.0	142.9	133.3	126.7	125.7	123.7	123.2	121.7
70°	162.6	151.0	138.9	126.7	116.1	114.6	112.6	110.6	108.1	107.1	106.0
72.5°	136.3	124.2	112.1	103.0	100.0	98.0	95.9	93.9	92.4	91.4	90.9
75°	108.6	97.5	89.4	85.8	83.3	81.8	78.8	77.3	76.2	74.7	74.2
77.5°	82.8	75.7	71.7	69.7	66.7	65.1	63.1	61.6	60.1	60.1	59.1
80°	59.6	56.6	54.0	51.0	50.0	48.0	47.5	46.0	46.5	44.9	44.9
82.5°	42.9	38.9	36.9	35.9	34.8	33.3	32.8	32.3	32.3	31.3	31.3
85°	23.7	22.7	21.7	20.7	20.7	19.2	19.7	19.2	19.2	18.2	17.7
87.5°	9.6	9.1	8.1	8.1	8.1	7.6	7.6	7.1	7.1	7.1	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P242404

CATALOG NUMBER: S122RDRP-S675D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1453.3	1453.3	1453.3	1453.3
2.5°	1381.1	1382.1	1380.6	1381.6
5°	1300.3	1294.2	1293.2	1291.7
7.5°	1204.8	1204.3	1201.3	1197.8
10°	1113.4	1110.9	1110.4	1106.9
12.5°	1006.4	986.7	984.7	974.6
15°	875.1	872.1	862.0	855.4
17.5°	801.9	791.8	788.2	786.7
20°	731.7	722.6	721.1	720.1
22.5°	683.2	673.6	669.1	665.5
25°	626.7	623.1	621.1	620.1
27.5°	582.2	573.1	572.1	569.6
30°	545.4	542.8	539.3	536.3
32.5°	501.9	499.9	496.9	495.9
35°	472.1	465.1	462.0	457.5
37.5°	439.3	435.3	430.2	432.2
40°	399.9	397.4	396.4	395.9
42.5°	368.6	360.5	357.5	357.5
45°	336.8	330.2	325.7	326.2
47.5°	302.5	303.0	299.9	301.0
50°	279.2	276.2	274.2	274.7
52.5°	257.0	254.5	253.0	255.5
55°	232.3	229.3	228.7	228.2
57.5°	205.5	204.0	201.5	200.0
60°	176.2	172.2	167.1	166.6
62.5°	149.5	149.5	149.5	149.5
65°	135.8	135.3	135.8	136.3
67.5°	121.7	120.7	119.7	120.2
70°	105.0	104.5	104.0	104.0
72.5°	88.9	88.9	88.4	87.9
75°	73.7	72.7	72.7	72.7
77.5°	59.1	58.6	58.1	57.6
80°	44.4	43.9	43.4	43.4
82.5°	31.3	30.8	30.8	30.3
85°	18.2	18.7	18.2	19.2
87.5°	6.6	6.1	6.6	6.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242404
 CATALOG NUMBER: S122RDRP-S675D840-X4F0-XX-UDD-A-W

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.07	18.52	17.44	18.84	19.15	22.97	24.42	23.34	24.74	25.05
	3H	18.18	19.48	18.56	19.81	20.17	24.13	25.43	24.51	25.76	26.12
	4H	18.64	19.85	19.04	20.20	20.58	24.52	25.74	24.92	26.09	26.47
	6H	19.01	20.13	19.42	20.50	20.89	24.79	25.91	25.20	26.28	26.67
	8H	19.13	20.20	19.56	20.59	20.99	24.86	25.93	25.29	26.32	26.72
	12H	19.21	20.23	19.64	20.61	21.04	24.90	25.92	25.33	26.30	26.73
4H	2H	17.78	19.00	18.18	19.35	19.73	22.94	24.15	23.34	24.50	24.88
	3H	19.05	20.06	19.46	20.46	20.86	24.23	25.24	24.64	25.64	26.04
	4H	19.60	20.51	20.04	20.92	21.36	24.73	25.63	25.16	26.05	26.49
	6H	20.07	20.86	20.53	21.30	21.76	25.11	25.89	25.57	26.34	26.80
	8H	20.23	20.97	20.70	21.41	21.88	25.22	25.96	25.69	26.40	26.87
	12H	20.35	21.00	20.84	21.48	21.96	25.30	25.95	25.78	26.43	26.91
8H	4H	19.95	20.68	20.41	21.12	21.59	24.71	25.44	25.18	25.89	26.36
	6H	20.52	21.12	21.01	21.61	22.09	25.14	25.74	25.64	26.23	26.71
	8H	20.74	21.28	21.26	21.79	22.28	25.29	25.83	25.80	26.34	26.83
	12H	20.93	21.40	21.44	21.90	22.46	25.41	25.89	25.92	26.38	26.95
12H	4H	19.99	20.64	20.47	21.12	21.59	24.69	25.34	25.17	25.82	26.29
	6H	20.58	21.12	21.09	21.63	22.12	25.11	25.65	25.63	26.16	26.65
	8H	20.86	21.33	21.37	21.83	22.39	25.29	25.77	25.81	26.26	26.83