

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: P242390

Luminaire Tested: S122RDRP-S865D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242390  
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-S865D927-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

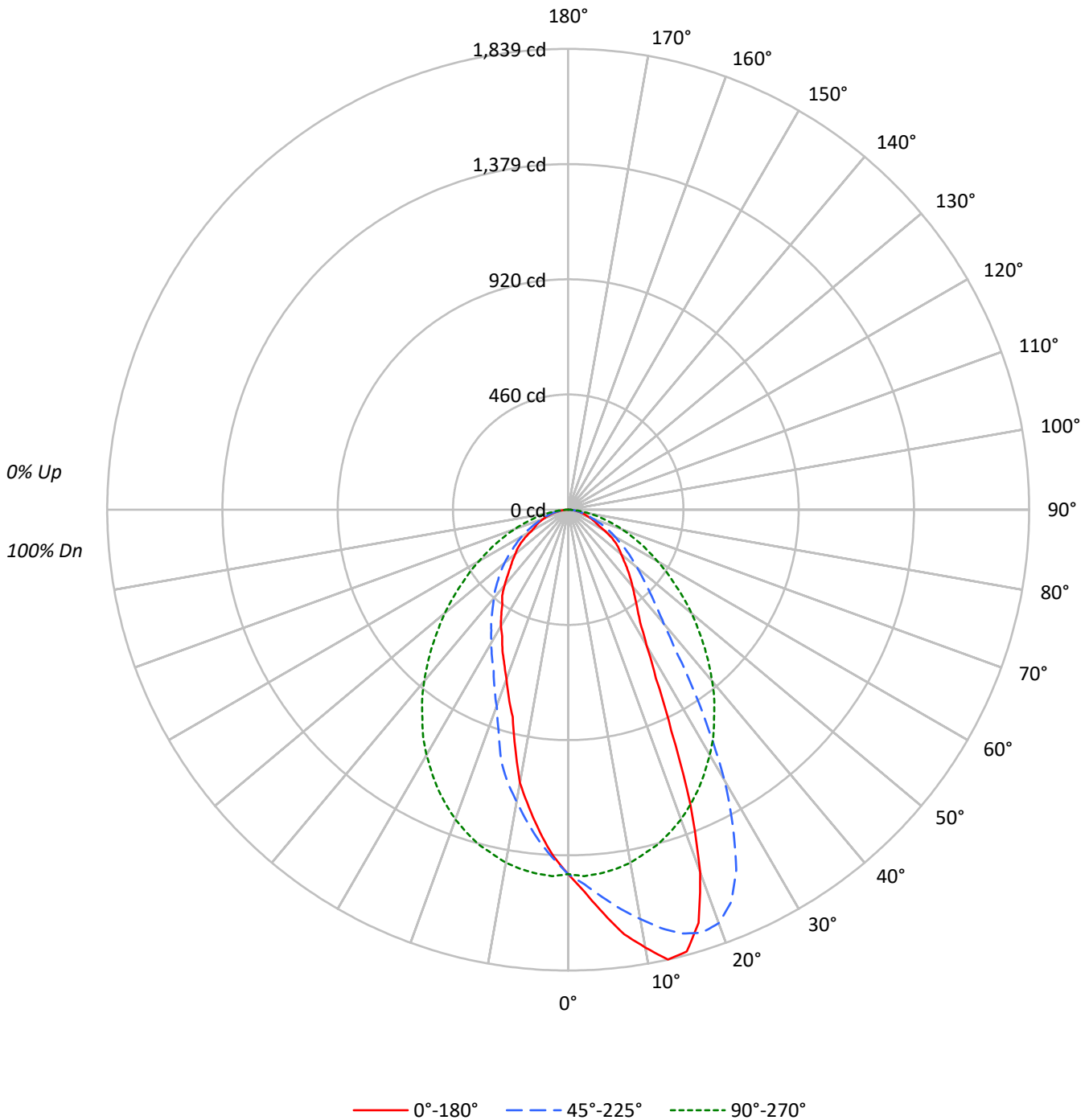
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2512.2 lumens  
Efficiency: N/A  
Efficacy: 72.2 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): 34.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	27692	27692	27692	27692	27692
5°	30927	29652	27864	25392	24707
10°	34314	32076	27670	22881	21417
15°	36000	34525	27264	20410	16874
20°	31210	35592	26663	16905	14601
25°	20468	33345	25840	14800	13037
30°	13777	27453	24843	13476	11800
35°	11159	20051	23585	12426	10643
40°	9924	14733	22219	11468	9847
45°	8981	12246	20615	10627	8790
50°	8173	10612	19024	9820	8143
55°	7684	9395	17262	8873	7582
60°	6427	8179	15646	8141	6351
65°	5418	7283	14206	7238	6148
70°	5007	5798	12687	6388	5798
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: 30030 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	5.5
10°-20°	384.9	15.3
20°-30°	495.3	19.7
30°-40°	469.9	18.7
40°-50°	402.7	16.0
50°-60°	306.7	12.2
60°-70°	193.5	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°	1018.1	40.5
0°-40°	1488.0	59.2
0°-60°	2197.4	87.5
0°-90°	2512.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1454	1454	1454	1454	1454	
5°	1618	1551	1457	1328	1292	159
15°	1826	1751	1383	1035	856	496
25°	974	1587	1230	704	620	460
35°	480	862	1014	534	458	305
45°	333	455	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°	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8
2.5°	1527.5	1529.1	1530.6	1527.0	1527.0	1524.0	1517.4	1512.4	1498.2	1496.2	1496.2
5°	1617.5	1616.5	1618.5	1611.9	1602.8	1600.8	1591.2	1578.6	1565.4	1550.8	1547.8
7.5°	1708.4	1702.3	1699.8	1702.8	1693.2	1680.1	1663.9	1648.8	1626.0	1607.4	1595.7
10°	1774.1	1790.7	1780.6	1762.9	1766.5	1742.7	1730.1	1708.4	1690.2	1658.4	1651.3
12.5°	1838.7	1842.8	1841.2	1833.2	1826.6	1811.9	1793.8	1775.6	1738.2	1710.4	1681.1
15°	1825.6	1835.2	1837.7	1834.7	1837.2	1836.2	1827.1	1811.4	1782.1	1750.8	1723.5
17.5°	1728.6	1739.7	1748.8	1756.9	1769.5	1794.3	1801.8	1804.9	1792.7	1770.5	1747.8
20°	1539.7	1528.6	1575.0	1598.8	1619.0	1669.5	1712.9	1729.6	1756.4	1755.9	1750.8
22.5°	1271.9	1278.0	1321.4	1350.7	1419.4	1470.0	1521.0	1595.2	1653.3	1696.3	1722.5
25°	973.9	993.1	1037.1	1075.4	1141.1	1235.1	1320.4	1419.4	1512.9	1586.6	1656.9
27.5°	757.7	760.2	800.1	839.0	879.5	960.8	1074.9	1193.6	1327.0	1423.0	1544.2
30°	626.4	623.3	638.0	659.7	693.1	752.7	833.5	949.7	1082.5	1248.2	1395.7
32.5°	533.4	534.4	544.5	559.2	585.5	620.8	669.8	758.7	882.5	1044.6	1224.0
35°	479.9	479.4	487.5	499.1	510.7	536.5	574.3	623.8	710.2	862.3	1039.1
37.5°	435.4	438.0	441.5	449.1	463.2	478.4	502.1	537.0	602.6	697.1	855.7
40°	399.1	400.1	405.6	411.7	419.3	430.4	449.1	475.8	520.8	592.5	701.1
42.5°	365.7	366.7	370.3	375.8	381.4	392.5	407.1	429.4	463.7	515.7	600.6
45°	333.4	333.4	336.9	339.5	346.0	356.1	368.8	387.9	413.2	454.6	514.2
47.5°	302.1	302.1	304.6	309.1	313.7	321.8	334.9	351.1	369.3	403.1	456.1
50°	275.8	276.3	277.8	281.4	283.9	291.0	300.6	314.2	333.4	358.1	400.6
52.5°	254.6	254.1	256.1	257.1	258.6	263.2	269.7	281.4	298.0	318.7	352.1
55°	231.4	229.3	232.4	234.9	236.4	238.4	242.5	250.0	264.7	282.9	309.1
57.5°	204.1	203.1	204.6	207.1	211.7	216.7	219.2	224.3	231.9	246.0	273.8
60°	168.7	168.7	173.3	174.8	180.3	187.4	194.5	198.5	206.1	214.7	233.9
62.5°	137.4	137.9	139.4	140.9	143.5	152.6	163.2	173.3	180.3	188.4	199.5
65°	120.2	121.2	121.2	122.2	124.3	126.3	130.3	137.4	150.0	161.6	171.2
67.5°	105.1	105.1	105.6	106.6	107.1	109.6	111.1	114.7	117.2	130.3	143.5
70°	89.9	91.4	90.9	91.9	92.4	93.5	95.5	97.0	101.5	104.1	111.1
72.5°	75.8	76.8	76.8	77.3	78.8	78.8	80.3	81.8	84.4	86.4	89.4
75°	63.6	63.1	63.6	64.7	65.2	65.7	65.7	67.7	69.2	71.2	73.8
77.5°	51.5	52.0	52.0	52.0	52.0	53.0	53.0	54.1	55.6	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°	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8
2.5°	1497.2	1493.2	1489.7	1480.6	1476.0	1465.9	1464.4	1463.9	1450.8	1438.1	1434.6
5°	1539.7	1531.6	1519.5	1505.3	1490.7	1475.5	1465.4	1457.3	1437.1	1417.9	1406.8
7.5°	1581.6	1566.9	1547.8	1523.5	1502.8	1478.5	1461.9	1446.7	1418.9	1393.7	1377.0
10°	1629.6	1601.3	1573.5	1536.6	1507.8	1479.6	1453.3	1430.6	1398.2	1361.9	1336.1
12.5°	1659.4	1627.6	1586.6	1550.8	1511.4	1473.5	1436.1	1405.3	1365.9	1328.0	1296.2
15°	1685.7	1652.3	1605.8	1554.3	1506.3	1459.4	1418.9	1382.6	1333.1	1288.1	1250.7
17.5°	1709.9	1663.9	1615.9	1556.3	1503.3	1446.2	1395.2	1349.7	1295.7	1242.6	1200.2
20°	1720.5	1675.0	1617.5	1557.9	1492.2	1422.0	1365.9	1315.4	1256.3	1197.2	1146.7
22.5°	1713.9	1681.1	1615.4	1541.2	1473.5	1399.2	1334.1	1273.5	1206.3	1145.7	1085.0
25°	1679.6	1667.5	1606.9	1529.1	1452.3	1366.9	1293.7	1229.5	1154.8	1090.1	1026.4
27.5°	1616.5	1634.1	1591.2	1506.8	1424.0	1332.1	1252.2	1180.0	1103.7	1031.5	967.9
30°	1516.4	1576.5	1560.4	1483.6	1388.1	1298.2	1205.8	1129.5	1046.7	971.9	909.3
32.5°	1379.5	1488.7	1512.4	1451.3	1351.8	1250.7	1152.7	1077.0	989.6	909.8	849.1
35°	1232.5	1381.1	1449.2	1408.3	1309.3	1202.7	1102.7	1014.3	927.4	849.6	789.0
37.5°	1058.3	1256.3	1361.4	1356.8	1262.3	1153.7	1045.1	957.7	868.3	791.6	728.4
40°	889.6	1108.8	1256.8	1289.6	1212.8	1093.1	983.0	893.6	806.7	731.9	656.7
42.5°	738.0	956.2	1146.7	1209.8	1152.7	1034.0	923.4	828.9	745.1	675.4	598.1
45°	621.3	812.3	1012.8	1114.8	1081.0	970.9	854.2	765.3	686.0	624.9	551.1
47.5°	538.0	676.9	878.4	1011.8	1007.8	903.2	787.0	701.6	626.9	570.3	507.7
50°	468.8	586.0	750.1	906.7	919.9	835.5	726.4	642.0	573.3	513.2	465.2
52.5°	406.6	498.1	641.5	790.0	833.5	763.3	658.2	581.9	515.7	461.7	422.3
55°	354.1	428.9	541.0	681.4	738.0	686.5	592.5	519.8	465.7	419.3	383.9
57.5°	308.1	366.7	460.2	577.9	642.0	607.2	526.9	466.8	418.8	375.3	347.0
60°	265.2	311.2	387.4	481.9	554.6	531.9	465.7	410.7	371.3	334.9	308.6
62.5°	224.8	262.7	325.3	397.5	462.7	456.6	405.6	361.7	328.3	296.0	274.8
65°	187.4	216.2	267.2	327.3	380.9	385.4	346.5	315.2	284.4	258.1	238.4
67.5°	155.1	174.8	213.2	266.2	307.1	321.3	295.0	269.7	244.5	223.3	205.6
70°	125.8	140.9	167.2	208.1	245.0	260.1	246.5	227.8	206.6	189.9	175.3
72.5°	96.0	110.6	128.3	155.6	185.9	202.6	200.0	187.9	171.7	158.6	145.0
75°	76.8	81.3	94.5	114.7	139.4	153.6	157.1	150.0	136.4	125.8	117.7
77.5°	59.6	62.6	69.7	81.8	99.0	111.6	117.2	116.2	106.1	99.0	91.4
80°	45.5	47.0	50.0	54.6	66.7	79.3	82.8	82.8	76.3	73.8	66.2
82.5°	31.8	32.8	34.3	36.4	40.4	51.0	55.1	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°	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8	1453.8
2.5°	1428.0	1424.5	1417.9	1407.8	1401.8	1391.2	1384.1	1388.1	1389.1	1388.1	1387.1
5°	1394.7	1384.1	1369.4	1355.3	1342.2	1328.0	1319.9	1316.4	1309.3	1305.3	1303.3
7.5°	1356.8	1341.1	1320.4	1297.7	1276.5	1256.3	1247.2	1240.1	1227.0	1219.9	1213.3
10°	1313.4	1284.6	1263.9	1231.5	1211.8	1183.0	1163.3	1163.8	1144.1	1133.0	1124.9
12.5°	1265.4	1233.0	1195.2	1166.9	1137.6	1115.9	1091.1	1079.0	1057.8	1047.2	1021.9
15°	1211.3	1174.5	1138.1	1098.7	1070.9	1035.0	1000.7	958.8	924.9	895.6	887.5
17.5°	1153.7	1108.3	1072.4	1032.0	988.6	923.4	881.0	855.2	835.0	819.8	807.7
20°	1094.1	1047.7	1008.8	939.1	874.9	834.0	804.7	786.0	764.8	748.1	739.0
22.5°	1031.5	982.5	925.9	846.1	799.6	768.8	743.6	721.3	708.7	696.6	688.5
25°	972.9	919.9	832.5	778.9	738.5	704.2	686.0	672.8	657.7	640.0	631.9
27.5°	911.8	827.4	761.2	722.4	680.9	659.2	643.5	621.8	608.2	601.6	592.5
30°	841.6	757.2	708.2	664.8	637.5	612.7	593.5	582.4	569.3	555.7	550.1
32.5°	763.3	700.1	653.7	619.3	591.5	571.3	557.2	537.5	528.9	521.8	508.7
35°	701.1	650.1	607.2	577.9	551.6	534.4	516.8	506.2	489.0	481.9	477.4
37.5°	644.6	600.1	567.8	535.4	515.2	495.0	484.9	467.3	460.7	449.6	440.5
40°	598.1	554.6	523.8	498.6	475.3	461.2	447.6	433.9	422.8	418.3	406.6
42.5°	550.6	517.3	486.5	458.2	444.5	429.4	411.2	402.1	390.5	382.4	376.3
45°	507.7	476.3	450.1	427.3	410.2	394.5	383.4	366.7	360.2	345.5	339.5
47.5°	469.8	439.5	414.2	392.0	374.8	365.7	349.6	334.9	325.8	315.7	307.1
50°	428.9	404.6	380.4	361.2	346.0	331.4	314.7	308.1	292.0	287.4	282.9
52.5°	391.5	368.8	347.0	328.3	313.2	299.0	284.9	275.8	266.2	261.7	258.6
55°	357.1	334.9	313.7	297.0	281.9	267.2	258.1	247.5	242.5	238.9	234.9
57.5°	321.8	301.6	284.9	267.7	252.6	240.4	229.3	223.3	218.2	214.2	208.6
60°	288.4	269.2	254.6	238.9	223.3	213.7	205.6	198.0	192.0	184.9	182.9
62.5°	253.1	236.9	223.8	208.6	195.5	186.9	179.3	172.3	164.7	153.6	150.5
65°	221.3	208.1	194.0	181.3	169.2	160.6	149.5	141.4	138.4	137.4	136.9
67.5°	192.0	179.3	167.2	154.1	143.0	133.4	126.8	125.8	123.8	123.3	121.7
70°	162.7	151.0	138.9	126.8	116.2	114.7	112.6	110.6	108.1	107.1	106.1
72.5°	136.4	124.3	112.1	103.0	100.0	98.0	96.0	94.0	92.4	91.4	90.9
75°	108.6	97.5	89.4	85.9	83.3	81.8	78.8	77.3	76.3	74.8	74.3
77.5°	82.8	75.8	71.7	69.7	66.7	65.2	63.1	61.6	60.1	60.1	59.1
80°	59.6	56.6	54.1	51.0	50.0	48.0	47.5	46.0	46.5	45.0	45.0
82.5°	42.9	38.9	36.9	35.9	34.9	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: P242390

CATALOG NUMBER: S122RDRP-S865D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1453.8	1453.8	1453.8	1453.8
2.5°	1381.6	1382.6	1381.1	1382.1
5°	1300.7	1294.7	1293.7	1292.2
7.5°	1205.3	1204.8	1201.7	1198.2
10°	1113.8	1111.3	1110.8	1107.3
12.5°	1006.7	987.0	985.0	974.9
15°	875.4	872.4	862.3	855.7
17.5°	802.2	792.1	788.5	787.0
20°	731.9	722.9	721.3	720.3
22.5°	683.5	673.9	669.3	665.8
25°	626.9	623.3	621.3	620.3
27.5°	582.4	573.3	572.3	569.8
30°	545.6	543.0	539.5	536.5
32.5°	502.1	500.1	497.1	496.0
35°	472.3	465.2	462.2	457.7
37.5°	439.5	435.4	430.4	432.4
40°	400.1	397.5	396.5	396.0
42.5°	368.8	360.7	357.6	357.6
45°	336.9	330.4	325.8	326.3
47.5°	302.6	303.1	300.1	301.1
50°	279.3	276.3	274.3	274.8
52.5°	257.1	254.6	253.1	255.6
55°	232.4	229.3	228.8	228.3
57.5°	205.6	204.1	201.6	200.0
60°	176.3	172.3	167.2	166.7
62.5°	149.5	149.5	149.5	149.5
65°	135.9	135.4	135.9	136.4
67.5°	121.7	120.7	119.7	120.2
70°	105.1	104.6	104.1	104.1
72.5°	88.9	88.9	88.4	87.9
75°	73.8	72.7	72.7	72.7
77.5°	59.1	58.6	58.1	57.6
80°	44.5	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: P242390  
 CATALOG NUMBER: S122RDRP-S865D927-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	18.53	17.44	18.84	19.15	22.97	24.43	23.34	24.74	25.05
	3H	18.19	19.48	18.56	19.81	20.18	24.13	25.43	24.51	25.76	26.12
	4H	18.64	19.86	19.04	20.21	20.59	24.53	25.74	24.93	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	18.19	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	25.90	25.57	26.34	26.80
	8H	20.24	20.97	20.70	21.41	21.88	25.23	25.96	25.69	26.40	26.87
	12H	20.35	21.01	20.84	21.49	21.96	25.30	25.95	25.79	26.43	26.91
8H	4H	19.95	20.68	20.41	21.13	21.59	24.71	25.44	25.18	25.89	26.36
	6H	20.52	21.12	21.02	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	25.81	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	21.10	21.63	22.12	25.11	25.65	25.63	26.17	26.65
	8H	20.86	21.34	21.37	21.83	22.40	25.29	25.77	25.81	26.26	26.83