

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: P242420

Luminaire Tested: S122RDRP-S865D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242420  
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-S865D940-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

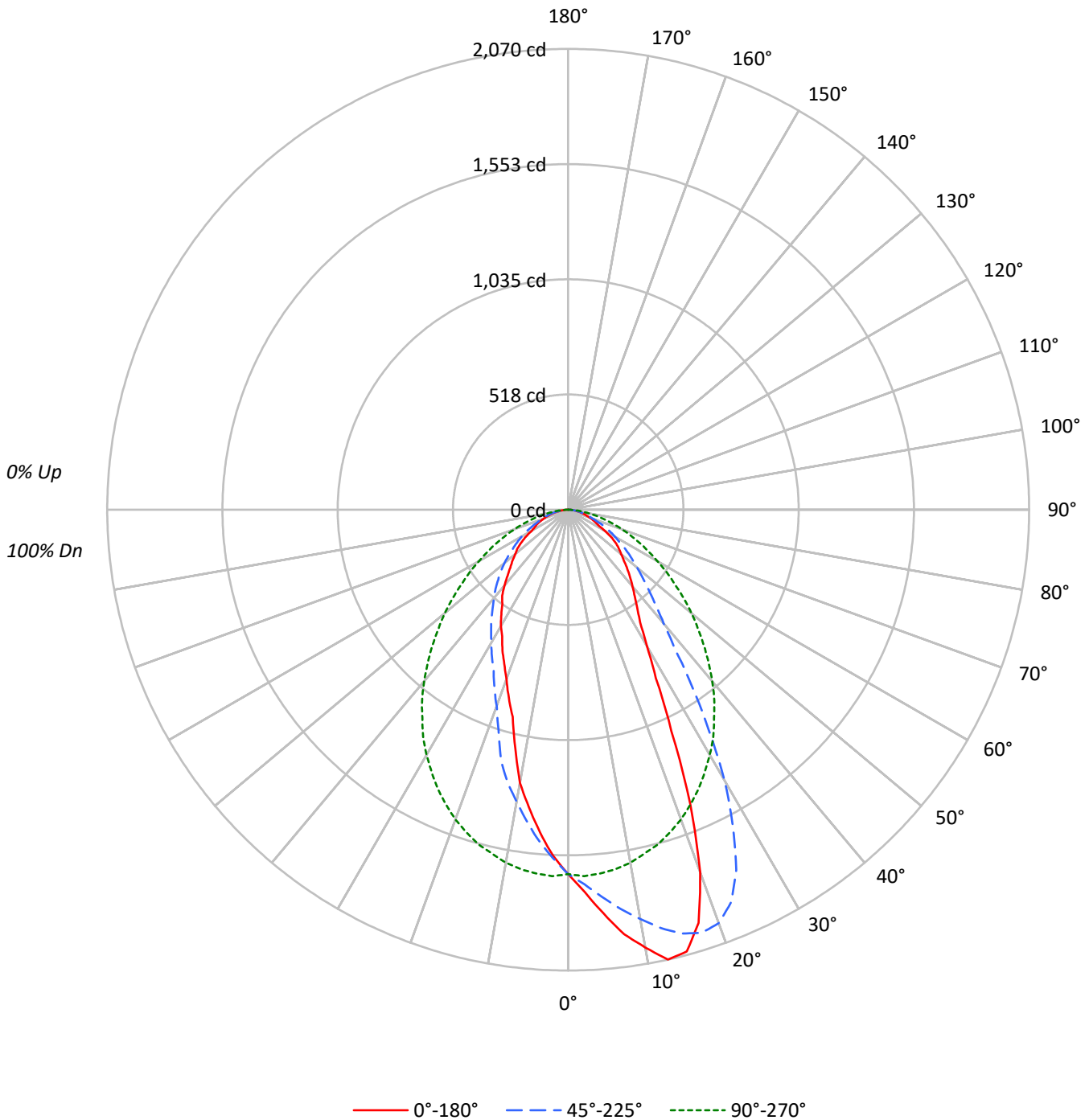
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2827.8 lumens  
Efficiency: N/A  
Efficacy: 81.3 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	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°	31170	31170	31170	31170	31170
5°	34813	33377	31365	28583	27811
10°	38623	36105	31146	25757	24107
15°	40522	38863	30690	22975	18994
20°	35130	40064	30014	19030	16435
25°	23041	37536	29087	16658	14674
30°	15508	30902	27964	15170	13282
35°	12561	22569	26550	13989	11980
40°	11169	16585	25012	12907	11085
45°	10110	13784	23204	11963	9894
50°	9201	11945	21416	11053	9165
55°	8648	10574	19430	9989	8535
60°	7234	9208	17612	9162	7147
65°	6098	8203	15991	8149	6918
70°	5636	6522	14279	7190	6522
75°	5269	5902	12430	6778	6027
80°	4870	5364	10234	5923	5364
85°	4480	4590	8086	4721	4721

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 70°  
 Vertical Angle: 45°  
 Luminance: 33804 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.2	5.5
10°-20°	433.2	15.3
20°-30°	557.6	19.7
30°-40°	529.0	18.7
40°-50°	453.2	16.0
50°-60°	345.3	12.2
60°-70°	217.8	7.7
70°-80°	108.7	3.8
80°-90°	27.9	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°	1146.0	40.5
0°-40°	1675.0	59.2
0°-60°	2473.5	87.5
0°-90°	2827.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1636	1636	1636	1636	1636	
5°	1821	1746	1640	1495	1454	179
15°	2055	1971	1556	1165	963	559
25°	1096	1786	1384	793	698	518
35°	540	971	1142	602	515	344
45°	375	512	861	444	367	290
55°	260	318	585	301	257	229
65°	135	182	355	181	154	137
75°	72	80	169	92	82	76
85°	20	21	37	22	22	23
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°	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1719.5	1721.2	1722.9	1718.9	1718.9	1715.5	1708.1	1702.4	1686.5	1684.2	1684.2
5°	1820.7	1819.5	1821.8	1814.4	1804.2	1801.9	1791.1	1776.9	1762.1	1745.6	1742.2
7.5°	1923.0	1916.2	1913.4	1916.8	1906.0	1891.2	1873.0	1855.9	1830.3	1809.3	1796.2
10°	1996.9	2015.7	2004.3	1984.4	1988.4	1961.7	1947.5	1923.0	1902.6	1866.7	1858.8
12.5°	2069.7	2074.3	2072.6	2063.5	2056.1	2039.6	2019.1	1998.7	1956.6	1925.3	1892.3
15°	2054.9	2065.7	2068.6	2065.2	2068.0	2066.9	2056.6	2039.0	2006.0	1970.8	1940.1
17.5°	1945.8	1958.3	1968.5	1977.6	1991.8	2019.7	2028.2	2031.6	2018.0	1993.0	1967.4
20°	1733.1	1720.6	1772.9	1799.6	1822.4	1879.2	1928.1	1946.9	1977.0	1976.5	1970.8
22.5°	1431.8	1438.6	1487.5	1520.5	1597.8	1654.6	1712.1	1795.7	1861.0	1909.4	1938.9
25°	1096.3	1117.9	1167.3	1210.6	1284.5	1390.2	1486.3	1597.8	1703.0	1786.0	1865.0
27.5°	852.9	855.8	900.7	944.5	989.9	1081.5	1210.0	1343.6	1493.7	1601.8	1738.2
30°	705.1	701.7	718.1	742.6	780.1	847.2	938.2	1069.0	1218.5	1405.0	1571.1
32.5°	600.4	601.6	613.0	629.4	659.0	698.8	754.0	854.0	993.4	1175.9	1377.7
35°	540.2	539.6	548.7	561.8	574.9	603.9	646.5	702.2	799.5	970.6	1169.6
37.5°	490.1	493.0	497.0	505.5	521.4	538.5	565.2	604.4	678.3	784.7	963.2
40°	449.2	450.3	456.6	463.4	471.9	484.5	505.5	535.6	586.2	667.0	789.2
42.5°	411.7	412.8	416.8	423.0	429.3	441.8	458.3	483.3	522.0	580.5	676.1
45°	375.3	375.3	379.3	382.1	389.5	400.9	415.1	436.7	465.1	511.7	578.8
47.5°	340.0	340.0	342.9	348.0	353.1	362.2	377.0	395.2	415.7	453.7	513.5
50°	310.5	311.0	312.7	316.7	319.6	327.5	338.3	353.7	375.3	403.1	450.9
52.5°	286.6	286.0	288.3	289.4	291.1	296.2	303.6	316.7	335.5	358.8	396.3
55°	260.4	258.1	261.6	264.4	266.1	268.4	272.9	281.5	297.9	318.4	348.0
57.5°	229.7	228.6	230.3	233.1	238.2	243.9	246.8	252.5	261.0	276.9	308.2
60°	189.9	189.9	195.0	196.7	203.0	211.0	218.9	223.5	232.0	241.7	263.3
62.5°	154.7	155.2	156.9	158.6	161.5	171.7	183.7	195.0	203.0	212.1	224.6
65°	135.3	136.5	136.5	137.6	139.9	142.2	146.7	154.7	168.9	182.0	192.8
67.5°	118.3	118.3	118.8	120.0	120.5	123.4	125.1	129.1	131.9	146.7	161.5
70°	101.2	102.9	102.3	103.5	104.1	105.2	107.5	109.2	114.3	117.1	125.1
72.5°	85.3	86.4	86.4	87.0	88.7	88.7	90.4	92.1	95.0	97.2	100.6
75°	71.6	71.1	71.6	72.8	73.4	73.9	73.9	76.2	77.9	80.2	83.0
77.5°	58.0	58.6	58.6	58.6	58.6	59.7	59.7	60.8	62.5	63.7	65.4
80°	44.4	44.9	44.4	44.9	45.5	46.1	45.5	46.1	47.8	48.9	48.9
82.5°	31.8	31.8	32.4	32.4	32.4	32.4	33.5	33.5	34.7	34.1	34.7
85°	20.5	19.9	19.9	19.9	20.5	21.0	20.5	20.5	21.0	21.0	21.0
87.5°	9.1	9.7	9.7	9.7	9.7	9.7	9.7	10.2	9.7	10.2	9.7
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°	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1685.3	1680.8	1676.8	1666.6	1661.5	1650.1	1648.4	1647.8	1633.0	1618.8	1614.8
5°	1733.1	1724.0	1710.4	1694.4	1678.0	1660.9	1649.5	1640.4	1617.7	1596.1	1583.6
7.5°	1780.3	1763.8	1742.2	1714.9	1691.6	1664.3	1645.5	1628.5	1597.2	1568.8	1550.0
10°	1834.3	1802.5	1771.2	1729.7	1697.3	1665.4	1635.9	1610.3	1573.9	1533.0	1504.0
12.5°	1867.9	1832.0	1786.0	1745.6	1701.3	1658.6	1616.5	1581.9	1537.5	1494.9	1459.0
15°	1897.4	1859.9	1807.6	1749.6	1695.6	1642.7	1597.2	1556.3	1500.6	1449.9	1407.9
17.5°	1924.7	1873.0	1819.0	1751.9	1692.2	1627.9	1570.5	1519.3	1458.5	1398.8	1351.0
20°	1936.7	1885.5	1820.7	1753.6	1679.7	1600.6	1537.5	1480.7	1414.1	1347.6	1290.7
22.5°	1929.3	1892.3	1818.4	1734.8	1658.6	1575.0	1501.7	1433.5	1357.8	1289.6	1221.4
25°	1890.6	1877.0	1808.7	1721.2	1634.7	1538.6	1456.2	1384.0	1299.8	1227.1	1155.4
27.5°	1819.5	1839.4	1791.1	1696.2	1602.9	1499.4	1409.6	1328.3	1242.4	1161.1	1089.4
30°	1707.0	1774.6	1756.4	1670.0	1562.5	1461.3	1357.3	1271.4	1178.2	1094.0	1023.5
32.5°	1552.9	1675.7	1702.4	1633.6	1521.6	1407.9	1297.6	1212.3	1113.9	1024.1	955.8
35°	1387.4	1554.6	1631.3	1585.3	1473.8	1353.9	1241.3	1141.8	1044.0	956.4	888.2
37.5°	1191.2	1414.1	1532.4	1527.3	1420.9	1298.7	1176.4	1078.1	977.4	891.0	819.9
40°	1001.3	1248.1	1414.7	1451.7	1365.2	1230.5	1106.5	1005.9	908.1	823.9	739.2
42.5°	830.7	1076.4	1290.7	1361.8	1297.6	1163.9	1039.4	933.1	838.7	760.2	673.2
45°	699.4	914.3	1140.1	1254.9	1216.8	1092.9	961.5	861.4	772.2	703.4	620.3
47.5°	605.6	761.9	988.8	1138.9	1134.4	1016.7	885.9	789.8	705.6	642.0	571.4
50°	527.7	659.6	844.4	1020.6	1035.4	940.5	817.7	722.7	645.4	577.7	523.7
52.5°	457.7	560.6	722.1	889.3	938.2	859.2	740.9	655.0	580.5	519.7	475.4
55°	398.6	482.7	609.0	767.0	830.7	772.7	667.0	585.1	524.3	471.9	432.1
57.5°	346.8	412.8	518.0	650.5	722.7	683.5	593.1	525.4	471.4	422.5	390.6
60°	298.5	350.3	436.1	542.5	624.3	598.7	524.3	462.3	417.9	377.0	347.4
62.5°	253.0	295.7	366.2	447.5	520.8	514.0	456.6	407.1	369.6	333.2	309.3
65°	211.0	243.4	300.8	368.5	428.7	433.8	390.1	354.8	320.1	290.6	268.4
67.5°	174.6	196.7	240.0	299.7	345.7	361.6	332.1	303.6	275.2	251.3	231.4
70°	141.6	158.6	188.2	234.3	275.8	292.8	277.5	256.4	232.6	213.8	197.3
72.5°	108.0	124.5	144.4	175.1	209.2	228.0	225.2	211.5	193.3	178.5	163.2
75°	86.4	91.5	106.3	129.1	156.9	172.9	176.8	168.9	153.5	141.6	132.5
77.5°	67.1	70.5	78.5	92.1	111.4	125.7	131.9	130.8	119.4	111.4	102.9
80°	51.2	52.9	56.3	61.4	75.1	89.3	93.3	93.3	85.9	83.0	74.5
82.5°	35.8	37.0	38.7	40.9	45.5	57.4	62.0	63.1	59.1	55.2	48.9
85°	22.2	21.6	22.7	24.5	25.6	29.0	35.8	37.0	35.8	31.3	29.6
87.5°	9.7	10.2	10.2	9.7	10.2	10.8	13.6	16.5	14.2	12.5	11.4
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°	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1607.4	1603.5	1596.1	1584.7	1577.9	1565.9	1558.0	1562.5	1563.7	1562.5	1561.4
5°	1569.9	1558.0	1541.5	1525.6	1510.8	1494.9	1485.8	1481.8	1473.8	1469.3	1467.0
7.5°	1527.3	1509.6	1486.3	1460.7	1436.9	1414.1	1403.9	1395.9	1381.1	1373.2	1365.8
10°	1478.4	1446.0	1422.7	1386.3	1364.1	1331.7	1309.5	1310.1	1287.9	1275.4	1266.3
12.5°	1424.4	1388.0	1345.3	1313.5	1280.5	1256.1	1228.2	1214.5	1190.7	1178.7	1150.3
15°	1363.5	1322.0	1281.1	1236.7	1205.4	1165.1	1126.4	1079.2	1041.1	1008.1	999.0
17.5°	1298.7	1247.5	1207.2	1161.7	1112.8	1039.4	991.6	962.7	939.9	922.8	909.2
20°	1231.6	1179.3	1135.5	1057.0	984.8	938.8	905.8	884.8	860.9	842.1	831.9
22.5°	1161.1	1105.9	1042.3	952.4	900.1	865.4	837.0	812.0	797.8	784.1	775.0
25°	1095.1	1035.4	937.1	876.8	831.3	792.6	772.2	757.4	740.3	720.4	711.3
27.5°	1026.3	931.4	856.9	813.1	766.5	742.0	724.4	700.0	684.6	677.2	667.0
30°	947.3	852.3	797.2	748.3	717.6	689.7	668.1	655.6	640.8	625.5	619.2
32.5°	859.2	788.1	735.8	697.1	665.8	643.1	627.2	605.0	595.3	587.4	572.6
35°	789.2	731.8	683.5	650.5	620.9	601.6	581.7	569.7	550.4	542.5	537.3
37.5°	725.5	675.5	639.1	602.7	580.0	557.2	545.9	526.0	518.6	506.1	495.8
40°	673.2	624.3	589.6	561.2	535.1	519.1	503.8	488.4	475.9	470.8	457.7
42.5°	619.8	582.3	547.6	515.7	500.4	483.3	462.8	452.6	439.5	430.4	423.6
45°	571.4	536.2	506.6	481.0	461.7	444.1	431.6	412.8	405.4	388.9	382.1
47.5°	528.8	494.7	466.3	441.2	421.9	411.7	393.5	377.0	366.8	355.4	345.7
50°	482.7	455.5	428.2	406.6	389.5	373.0	354.2	346.8	328.7	323.5	318.4
52.5°	440.7	415.1	390.6	369.6	352.5	336.6	320.7	310.5	299.7	294.5	291.1
55°	402.0	377.0	353.1	334.3	317.3	300.8	290.6	278.6	272.9	269.0	264.4
57.5°	362.2	339.5	320.7	301.4	284.3	270.7	258.1	251.3	245.6	241.1	234.8
60°	324.7	303.1	286.6	269.0	251.3	240.5	231.4	222.9	216.1	208.1	205.8
62.5°	284.9	266.7	251.9	234.8	220.1	210.4	201.9	193.9	185.4	172.9	169.4
65°	249.0	234.3	218.3	204.1	190.5	180.8	168.3	159.2	155.8	154.7	154.1
67.5°	216.1	201.9	188.2	173.4	160.9	150.1	142.7	141.6	139.3	138.7	137.0
70°	183.1	170.0	156.4	142.7	130.8	129.1	126.8	124.5	121.7	120.5	119.4
72.5°	153.5	139.9	126.2	116.0	112.6	110.3	108.0	105.8	104.1	102.9	102.3
75°	122.3	109.7	100.6	96.7	93.8	92.1	88.7	87.0	85.9	84.2	83.6
77.5°	93.3	85.3	80.7	78.5	75.1	73.4	71.1	69.4	67.7	67.7	66.5
80°	67.1	63.7	60.8	57.4	56.3	54.0	53.4	51.7	52.3	50.6	50.6
82.5°	48.3	43.8	41.5	40.4	39.2	37.5	37.0	36.4	36.4	35.3	35.3
85°	26.7	25.6	24.5	23.3	23.3	21.6	22.2	21.6	21.6	20.5	19.9
87.5°	10.8	10.2	9.1	9.1	9.1	8.5	8.5	8.0	8.0	8.0	7.4
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: P242420

CATALOG NUMBER: S122RDRP-S865D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1636.4	1636.4	1636.4	1636.4
2.5°	1555.1	1556.3	1554.6	1555.7
5°	1464.2	1457.3	1456.2	1454.5
7.5°	1356.7	1356.1	1352.7	1348.7
10°	1253.8	1250.9	1250.4	1246.4
12.5°	1133.2	1111.1	1108.8	1097.4
15°	985.4	982.0	970.6	963.2
17.5°	902.9	891.6	887.6	885.9
20°	823.9	813.7	812.0	810.8
22.5°	769.3	758.5	753.4	749.4
25°	705.6	701.7	699.4	698.2
27.5°	655.6	645.4	644.2	641.4
30°	614.1	611.3	607.3	603.9
32.5°	565.2	562.9	559.5	558.4
35°	531.6	523.7	520.3	515.2
37.5°	494.7	490.1	484.5	486.7
40°	450.3	447.5	446.4	445.8
42.5°	415.1	406.0	402.6	402.6
45°	379.3	371.9	366.8	367.3
47.5°	340.6	341.2	337.8	338.9
50°	314.4	311.0	308.8	309.3
52.5°	289.4	286.6	284.9	287.7
55°	261.6	258.1	257.6	257.0
57.5°	231.4	229.7	226.9	225.2
60°	198.4	193.9	188.2	187.6
62.5°	168.3	168.3	168.3	168.3
65°	153.0	152.4	153.0	153.5
67.5°	137.0	135.9	134.8	135.3
70°	118.3	117.7	117.1	117.1
72.5°	100.1	100.1	99.5	98.9
75°	83.0	81.9	81.9	81.9
77.5°	66.5	66.0	65.4	64.8
80°	50.0	49.5	48.9	48.9
82.5°	35.3	34.7	34.7	34.1
85°	20.5	21.0	20.5	21.6
87.5°	7.4	6.8	7.4	6.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242420

CATALOG NUMBER: S122RDRP-S865D940-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	17.48	18.94	17.85	19.25	19.56	23.38	24.84	23.75	25.15	25.46
	3H	18.60	19.89	18.97	20.22	20.59	24.54	25.84	24.92	26.17	26.53
	4H	19.05	20.27	19.45	20.62	21.00	24.94	26.15	25.34	26.50	26.88
	6H	19.42	20.54	19.83	20.91	21.30	25.20	26.32	25.62	26.69	27.08
	8H	19.54	20.61	19.97	21.00	21.40	25.27	26.34	25.70	26.73	27.13
	12H	19.62	20.64	20.05	21.03	21.45	25.31	26.33	25.74	26.71	27.14
4H	2H	18.20	19.41	18.60	19.76	20.14	23.35	24.56	23.75	24.91	25.29
	3H	19.46	20.47	19.88	20.87	21.27	24.64	25.65	25.06	26.05	26.45
	4H	20.01	20.92	20.45	21.34	21.78	25.14	26.04	25.57	26.46	26.90
	6H	20.49	21.27	20.95	21.71	22.18	25.52	26.31	25.98	26.75	27.21
	8H	20.65	21.38	21.11	21.82	22.29	25.64	26.37	26.10	26.81	27.28
	12H	20.76	21.42	21.25	21.90	22.37	25.71	26.37	26.20	26.85	27.32
8H	4H	20.36	21.09	20.82	21.54	22.00	25.12	25.86	25.59	26.30	26.77
	6H	20.93	21.53	21.43	22.02	22.50	25.55	26.15	26.05	26.65	27.12
	8H	21.15	21.69	21.67	22.20	22.69	25.70	26.24	26.22	26.75	27.24
	12H	21.34	21.82	21.85	22.31	22.88	25.82	26.30	26.33	26.79	27.36
12H	4H	20.40	21.05	20.88	21.53	22.00	25.10	25.75	25.58	26.23	26.70
	6H	20.99	21.53	21.51	22.04	22.53	25.52	26.06	26.04	26.58	27.07
	8H	21.27	21.75	21.78	22.24	22.81	25.71	26.18	26.22	26.68	27.24