

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: P243261

Luminaire Tested: S122RDRP-H1005D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-H1005D835-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

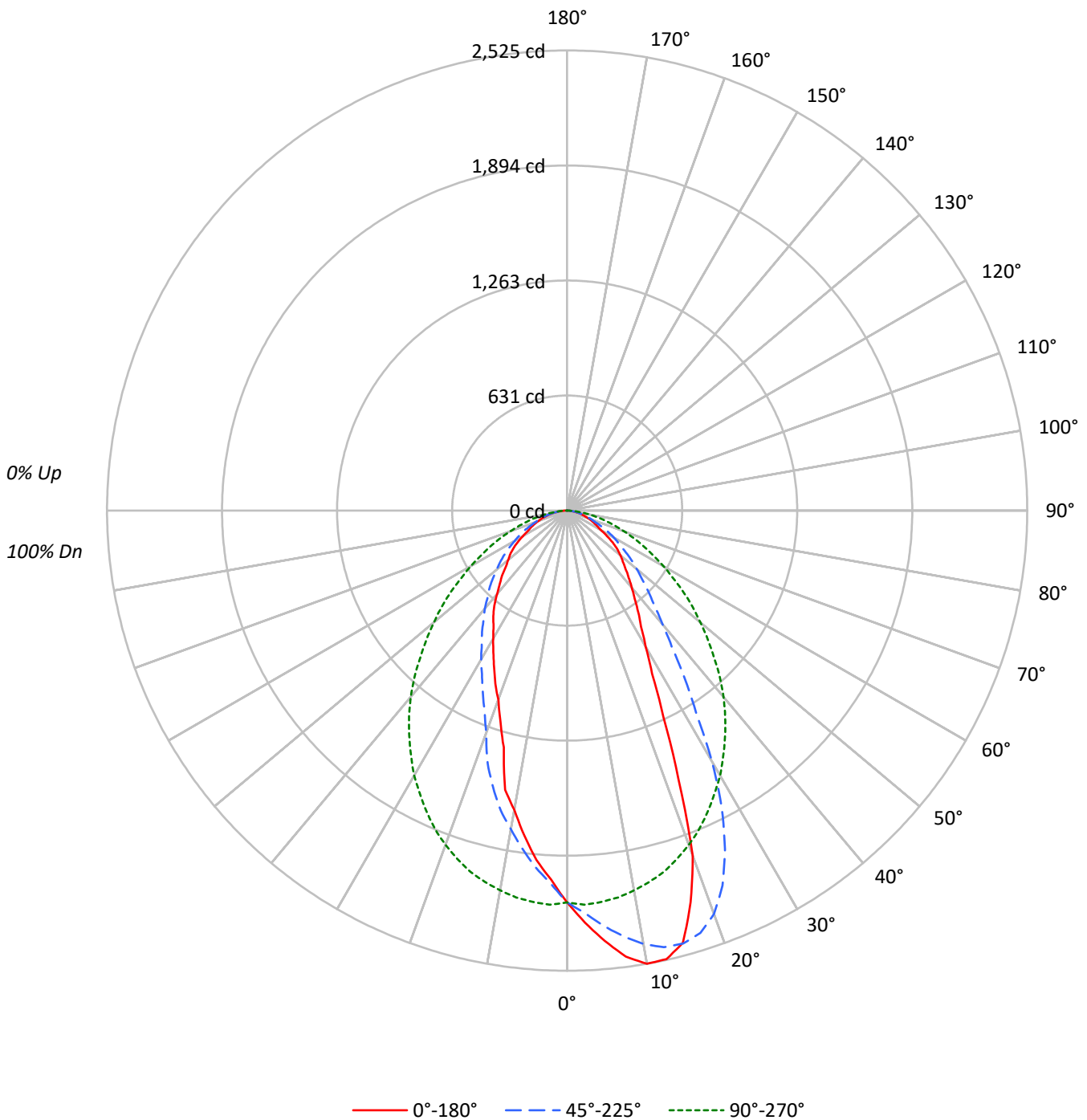
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3622.4 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99  
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.7  
Input Voltage (V): 120  
Input Current (Ain): 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	110	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	86	83	79	84	80	78					76				
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	65	61	69	64	60					58				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	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					38				
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	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°	40941	40941	40941	40941	40941
5°	45319	43732	41218	37614	36794
10°	48837	46714	40933	34349	32268
15°	48404	48502	40457	30983	26519
20°	40830	47732	39563	26319	22382
25°	26252	43074	38343	23030	19926
30°	18966	34929	36926	20745	17851
35°	15798	26150	35147	18940	16419
40°	13711	20270	33192	17470	14864
45°	12240	16976	30711	16257	13603
50°	11296	14778	28282	14923	12505
55°	10135	12752	25833	13921	11912
60°	8091	11227	23257	12648	10716
65°	7419	9541	20890	11601	9889
70°	6817	7875	18451	10303	9401
75°	6211	7043	16147	9781	8905
80°	5397	6176	13426	8951	8337
85°	4305	5070	10753	8152	7693

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 40660 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.5	5.6
10°-20°	556.7	15.4
20°-30°	701.7	19.4
30°-40°	673.6	18.6
40°-50°	580.2	16.0
50°-60°	443.6	12.2
60°-70°	282.3	7.8
70°-80°	143.1	3.9
80°-90°	37.8	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°	1461.9	40.4
0°-40°	2135.5	59.0
0°-60°	3159.3	87.2
0°-90°	3622.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3622.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2149	2149	2149	2149	2149	
5°	2370	2287	2156	1967	1924	231
15°	2455	2460	2052	1571	1345	666
25°	1249	2050	1824	1096	948	597
35°	679	1125	1512	814	706	428
45°	454	630	1140	604	505	354
55°	305	384	778	419	359	269
65°	165	212	464	257	219	164
75°	84	96	219	133	121	89
85°	20	23	49	37	35	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°	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2263.3	2266.1	2267.5	2264.0	2256.3	2257.0	2250.0	2238.0	2223.2	2209.9	2217.6
5°	2370.2	2373.8	2373.0	2366.7	2359.0	2351.9	2340.0	2323.1	2305.5	2287.2	2283.7
7.5°	2468.7	2476.4	2474.3	2462.4	2456.7	2446.9	2426.5	2407.5	2380.8	2354.8	2344.2
10°	2525.0	2531.3	2527.8	2525.0	2518.6	2508.8	2490.5	2472.2	2442.7	2415.2	2399.8
12.5°	2520.7	2526.4	2529.2	2532.0	2529.9	2526.4	2518.6	2503.2	2479.3	2453.9	2434.2
15°	2454.6	2445.5	2439.2	2456.7	2463.1	2487.0	2492.6	2494.7	2478.5	2459.6	2454.6
17.5°	2253.5	2256.3	2304.8	2297.1	2307.6	2366.0	2389.2	2420.9	2434.2	2430.0	2438.5
20°	2014.3	1981.3	2005.2	2040.4	2073.4	2158.5	2214.8	2264.7	2322.4	2354.8	2385.7
22.5°	1598.0	1598.7	1656.4	1714.0	1788.6	1880.7	1966.5	2062.2	2164.9	2227.5	2299.9
25°	1249.1	1282.9	1308.2	1333.5	1441.8	1530.5	1673.2	1789.3	1930.7	2049.5	2171.2
27.5°	1010.0	1045.2	1049.4	1106.3	1170.3	1242.1	1335.6	1518.5	1663.4	1837.8	1988.3
30°	862.3	869.3	884.1	898.9	946.0	1012.8	1113.4	1228.0	1389.1	1588.1	1790.0
32.5°	755.4	754.0	768.7	792.0	818.0	863.0	920.0	1014.9	1160.5	1318.8	1554.4
35°	679.4	677.3	687.9	696.3	711.8	748.3	799.7	862.3	967.1	1124.6	1307.5
37.5°	607.7	611.9	618.2	627.4	647.8	671.0	705.4	757.5	840.5	944.6	1119.7
40°	551.4	556.3	563.4	569.7	585.2	604.2	627.4	668.9	724.4	815.2	949.5
42.5°	500.8	502.9	508.5	517.7	528.9	545.8	568.3	599.9	646.4	709.7	827.1
45°	454.4	454.4	460.7	469.1	476.2	492.3	509.9	540.2	576.0	630.2	713.9
47.5°	415.0	415.7	419.2	420.6	428.3	443.1	462.1	486.0	515.5	557.0	635.1
50°	381.2	384.0	385.4	387.5	390.4	398.1	411.5	429.7	462.1	498.7	550.7
52.5°	346.0	349.6	352.4	356.6	360.8	361.5	371.4	383.3	405.8	443.8	486.0
55°	305.2	308.1	313.7	317.2	322.8	327.8	335.5	343.9	358.7	384.0	427.6
57.5°	258.8	259.5	265.2	268.7	279.9	291.2	298.2	307.4	317.9	335.5	368.5
60°	212.4	214.5	215.2	218.0	227.9	239.8	253.9	268.0	279.2	294.7	317.9
62.5°	187.1	187.8	189.9	192.7	193.4	199.0	203.3	220.1	239.8	255.3	270.8
65°	164.6	165.3	165.3	167.4	170.2	173.0	175.1	181.5	189.9	211.7	230.7
67.5°	143.5	142.8	144.2	146.3	147.0	149.1	152.6	156.1	161.8	168.1	187.8
70°	122.4	122.4	121.7	123.8	125.9	126.6	128.7	132.2	135.7	141.4	147.7
72.5°	101.3	102.7	102.7	104.1	104.8	107.6	109.0	110.4	115.3	118.2	123.1
75°	84.4	83.7	85.8	85.1	86.5	87.2	89.3	91.4	92.8	95.7	99.9
77.5°	67.5	66.1	67.5	66.8	68.2	69.6	69.6	71.7	73.1	76.0	78.1
80°	49.2	49.2	49.9	51.3	51.3	52.0	53.5	52.8	55.6	56.3	58.4
82.5°	33.8	34.5	34.5	35.2	35.2	35.2	36.6	36.6	37.3	38.7	39.4
85°	19.7	19.0	19.7	19.7	19.7	20.4	21.1	20.4	21.8	23.2	23.2
87.5°	5.6	5.6	6.3	7.0	7.0	7.7	7.7	7.7	8.4	8.4	9.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2217.6	2214.1	2205.0	2196.5	2181.0	2168.4	2164.2	2164.9	2145.9	2126.2	2120.6
5°	2278.8	2266.1	2247.9	2228.9	2205.7	2182.4	2167.7	2155.7	2126.2	2096.6	2079.8
7.5°	2329.4	2309.0	2282.3	2252.1	2221.8	2187.4	2163.5	2140.9	2100.2	2060.1	2038.3
10°	2375.9	2347.0	2310.5	2271.1	2231.0	2186.0	2151.5	2116.3	2065.0	2020.0	1982.7
12.5°	2420.2	2374.5	2337.2	2280.2	2235.9	2174.7	2127.6	2086.8	2026.3	1970.0	1928.5
15°	2424.4	2392.0	2342.1	2283.0	2215.5	2158.5	2099.5	2051.6	1982.7	1920.1	1849.1
17.5°	2423.7	2398.4	2346.3	2285.8	2205.0	2130.4	2066.4	2003.8	1925.0	1851.9	1790.7
20°	2398.4	2380.8	2335.8	2264.0	2182.4	2096.6	2025.6	1951.8	1859.6	1784.4	1717.5
22.5°	2338.6	2342.8	2307.6	2243.6	2155.7	2060.1	1977.8	1892.7	1798.4	1711.9	1627.5
25°	2237.3	2282.3	2271.8	2212.0	2118.4	2013.6	1920.1	1824.4	1723.2	1631.0	1553.0
27.5°	2111.4	2195.8	2214.1	2167.7	2078.4	1960.9	1854.7	1750.6	1647.2	1548.0	1467.9
30°	1962.3	2088.2	2134.6	2109.3	2027.0	1903.9	1780.8	1678.9	1565.6	1460.1	1375.7
32.5°	1774.5	1951.0	2032.6	2040.4	1972.9	1840.6	1704.2	1594.5	1478.4	1378.5	1287.8
35°	1564.9	1781.5	1914.5	1950.3	1901.8	1771.0	1627.5	1511.5	1387.7	1287.1	1195.7
37.5°	1353.9	1608.5	1783.0	1852.6	1820.2	1693.6	1541.7	1424.3	1301.9	1199.2	1113.4
40°	1159.8	1401.7	1628.2	1737.2	1727.4	1609.9	1456.6	1334.9	1210.4	1115.5	1021.2
42.5°	986.1	1219.6	1468.6	1614.9	1622.6	1519.9	1363.1	1240.7	1121.1	1026.9	928.4
45°	848.9	1054.3	1301.2	1475.6	1509.4	1425.0	1266.0	1140.1	1031.1	942.5	844.0
47.5°	739.2	898.9	1128.1	1332.8	1392.6	1318.8	1166.8	1047.3	944.6	868.6	775.8
50°	644.3	794.1	988.9	1178.1	1266.0	1210.4	1068.4	954.4	861.6	788.4	706.9
52.5°	559.9	675.9	844.7	1026.2	1144.3	1093.7	972.7	867.9	780.7	712.5	644.3
55°	490.2	587.3	736.4	898.2	1007.2	979.0	871.4	777.9	701.2	636.5	581.0
57.5°	418.5	500.1	620.3	764.5	871.4	867.2	778.6	688.6	628.1	566.9	526.8
60°	355.9	422.0	519.8	642.1	749.8	750.5	681.5	610.5	558.4	505.7	467.7
62.5°	300.3	353.1	438.2	536.6	622.5	644.3	592.9	531.0	488.8	448.0	415.7
65°	252.5	291.9	355.9	445.2	512.7	542.3	508.5	463.5	428.3	391.8	362.9
67.5°	208.2	237.0	284.1	354.5	422.0	443.8	429.7	395.3	370.0	339.7	317.9
70°	163.9	188.5	221.6	274.3	329.9	360.1	355.9	331.3	310.2	288.4	268.0
72.5°	130.1	144.2	169.5	207.5	251.8	285.6	287.0	274.3	256.7	238.4	225.1
75°	104.8	111.1	123.1	152.6	187.8	215.9	225.8	219.4	205.4	194.1	185.0
77.5°	80.9	86.5	94.2	108.3	135.7	157.5	169.5	170.2	161.8	151.9	144.9
80°	60.5	62.6	68.2	75.3	89.3	108.3	122.4	122.4	117.5	112.5	108.3
82.5°	41.5	43.6	46.4	49.9	57.0	68.2	80.9	83.0	80.2	78.8	73.1
85°	23.2	25.3	26.7	28.8	31.7	37.3	46.4	49.2	49.9	45.7	42.9
87.5°	9.1	9.1	9.8	10.6	11.3	13.4	16.9	21.1	21.1	19.0	18.3
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°	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2113.5	2103.7	2091.0	2079.8	2064.3	2048.8	2046.0	2051.6	2053.0	2046.0	2048.1
5°	2063.6	2045.3	2029.8	2004.5	1988.3	1967.2	1953.2	1953.2	1953.2	1942.6	1932.8
7.5°	2011.5	1986.9	1957.4	1933.5	1900.4	1873.0	1859.6	1853.3	1840.6	1830.1	1818.1
10°	1951.0	1916.6	1880.0	1842.7	1813.9	1775.9	1753.4	1739.3	1717.5	1708.4	1690.8
12.5°	1880.0	1845.5	1801.2	1740.8	1732.3	1685.9	1654.2	1628.2	1601.5	1579.7	1572.0
15°	1823.0	1763.3	1704.2	1661.3	1598.7	1571.2	1524.8	1520.6	1498.8	1434.8	1384.9
17.5°	1730.9	1677.5	1612.0	1564.2	1514.3	1453.1	1403.9	1355.3	1308.9	1263.9	1262.5
20°	1649.3	1586.7	1524.8	1472.8	1385.6	1298.4	1268.1	1223.8	1196.4	1160.5	1150.0
22.5°	1560.0	1494.6	1417.2	1341.3	1239.3	1184.4	1151.4	1116.2	1088.8	1072.6	1056.4
25°	1470.0	1404.6	1301.9	1208.3	1138.7	1095.8	1067.7	1029.7	1010.0	995.9	974.8
27.5°	1382.1	1299.1	1190.7	1116.2	1059.9	1011.4	986.1	955.1	933.3	915.0	901.7
30°	1294.8	1180.9	1088.8	1031.1	973.4	943.2	910.1	886.9	870.7	853.8	832.0
32.5°	1199.2	1079.6	1019.8	948.8	915.0	871.4	847.5	823.6	802.5	790.5	782.8
35°	1088.1	991.7	938.2	886.2	843.3	814.5	780.7	765.9	754.7	731.5	721.6
37.5°	993.8	924.2	867.9	821.5	782.1	751.2	735.7	710.4	694.2	686.5	675.9
40°	915.7	853.8	805.3	758.2	725.1	702.6	675.2	661.8	640.7	633.0	624.6
42.5°	848.2	791.3	740.6	704.7	675.9	645.0	630.9	608.4	599.2	580.3	573.2
45°	780.0	729.4	685.0	649.9	622.5	603.5	578.1	564.1	547.9	538.1	519.1
47.5°	711.8	666.8	630.2	600.6	576.7	553.5	532.4	520.5	500.1	489.5	479.7
50°	659.0	615.4	581.0	551.4	526.8	503.6	490.2	470.5	452.2	440.3	436.8
52.5°	596.4	558.4	526.8	504.3	479.7	462.8	444.5	422.7	413.6	401.6	398.8
55°	540.9	509.9	483.2	459.3	438.2	419.2	398.1	382.6	375.6	370.0	365.7
57.5°	488.8	459.3	434.7	412.9	394.6	374.9	357.3	348.2	341.8	335.5	331.3
60°	437.5	410.7	388.2	370.0	351.0	332.0	319.3	311.6	306.7	297.5	294.7
62.5°	391.8	367.1	343.9	327.1	309.5	294.7	284.1	273.6	265.9	258.8	244.1
65°	341.8	320.0	302.4	285.6	268.7	257.4	245.5	233.5	223.7	223.7	223.7
67.5°	297.5	278.5	260.2	245.5	230.7	217.3	205.4	204.7	201.2	199.7	197.6
70°	252.5	239.1	222.3	206.1	191.3	185.0	182.9	179.4	175.1	174.4	171.6
72.5°	211.7	196.2	180.8	166.7	163.9	161.1	156.8	153.3	150.5	148.4	147.0
75°	173.0	157.5	144.9	141.4	137.9	132.9	129.4	126.6	125.2	125.2	124.5
77.5°	132.2	123.1	117.5	111.8	109.0	106.2	104.1	102.7	100.6	101.3	99.9
80°	97.1	94.2	89.3	85.8	84.4	81.6	80.2	79.5	78.1	78.1	77.4
82.5°	69.6	64.7	62.6	60.5	59.1	57.7	58.4	57.7	57.0	56.3	57.0
85°	40.1	39.4	38.0	38.0	38.0	37.3	37.3	37.3	36.6	35.9	35.9
87.5°	17.6	18.3	18.3	16.9	19.0	19.0	18.3	18.3	17.6	19.0	17.6
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: P243261

CATALOG NUMBER: S122RDRP-H1005D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2149.4	2149.4	2149.4	2149.4
2.5°	2039.0	2038.3	2034.0	2027.0
5°	1928.5	1925.7	1918.7	1924.3
7.5°	1810.4	1802.6	1795.6	1799.1
10°	1683.8	1681.0	1676.7	1668.3
12.5°	1543.8	1555.1	1543.1	1569.8
15°	1336.3	1386.3	1323.7	1344.8
17.5°	1232.9	1233.6	1225.2	1215.4
20°	1135.9	1111.3	1120.4	1104.2
22.5°	1042.3	1036.7	1033.9	1028.3
25°	958.6	948.1	944.6	948.1
27.5°	896.8	891.8	878.5	876.4
30°	819.4	817.3	813.1	811.6
32.5°	770.9	761.7	759.6	751.2
35°	716.7	711.8	708.3	706.1
37.5°	662.5	659.7	653.4	656.9
40°	618.2	604.2	598.5	597.8
42.5°	569.7	562.0	550.7	547.2
45°	513.4	509.9	506.4	505.0
47.5°	464.2	462.1	457.9	455.8
50°	429.0	423.4	422.7	422.0
52.5°	395.3	393.2	391.1	393.9
55°	363.6	360.8	358.7	358.7
57.5°	329.2	324.2	320.0	320.7
60°	289.1	286.3	282.7	281.3
62.5°	242.7	242.7	241.9	241.9
65°	220.8	219.4	218.7	219.4
67.5°	196.9	195.5	193.4	194.1
70°	169.5	168.8	169.5	168.8
72.5°	144.9	144.2	144.9	146.3
75°	122.4	121.7	121.0	121.0
77.5°	99.2	98.5	97.1	98.5
80°	77.4	76.7	76.0	76.0
82.5°	54.9	55.6	54.9	54.9
85°	35.9	36.6	35.9	35.2
87.5°	18.3	19.0	17.6	16.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243261  
 CATALOG NUMBER: S122RDRP-H1005D835-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	17.74	19.19	18.10	19.51	19.82	24.07	25.53	24.43	25.84	26.15
	3H	18.91	20.21	19.29	20.54	20.91	25.32	26.62	25.70	26.95	27.31
	4H	19.37	20.59	19.77	20.94	21.32	25.75	26.97	26.15	27.32	27.70
	6H	19.70	20.82	20.11	21.19	21.58	26.05	27.17	26.46	27.54	27.93
	8H	19.80	20.87	20.22	21.26	21.66	26.13	27.20	26.56	27.59	28.00
	12H	19.85	20.87	20.28	21.26	21.69	26.18	27.20	26.61	27.59	28.02
4H	2H	18.46	19.68	18.86	20.03	20.41	24.05	25.27	24.45	25.62	26.00
	3H	19.79	20.80	20.20	21.20	21.60	25.44	26.45	25.85	26.85	27.25
	4H	20.34	21.25	20.77	21.67	22.11	25.97	26.87	26.40	27.29	27.73
	6H	20.77	21.56	21.23	22.00	22.46	26.38	27.17	26.84	27.61	28.08
	8H	20.90	21.64	21.37	22.08	22.55	26.51	27.25	26.98	27.70	28.16
	12H	20.98	21.64	21.47	22.12	22.59	26.61	27.26	27.09	27.74	28.21
8H	4H	20.69	21.42	21.15	21.87	22.34	25.96	26.70	26.43	27.14	27.61
	6H	21.21	21.82	21.71	22.31	22.79	26.43	27.03	26.93	27.53	28.01
	8H	21.40	21.94	21.91	22.45	22.94	26.60	27.14	27.11	27.65	28.14
	12H	21.53	22.01	22.04	22.50	23.07	26.74	27.22	27.25	27.71	28.28
12H	4H	20.73	21.38	21.21	21.86	22.34	25.94	26.60	26.43	27.08	27.55
	6H	21.27	21.82	21.79	22.33	22.82	26.41	26.95	26.92	27.46	27.95
	8H	21.51	21.99	22.02	22.48	23.05	26.61	27.09	27.12	27.58	28.15