

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: P242406

Luminaire Tested: S122RDRP-S1005D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242406
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-S1005D840-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

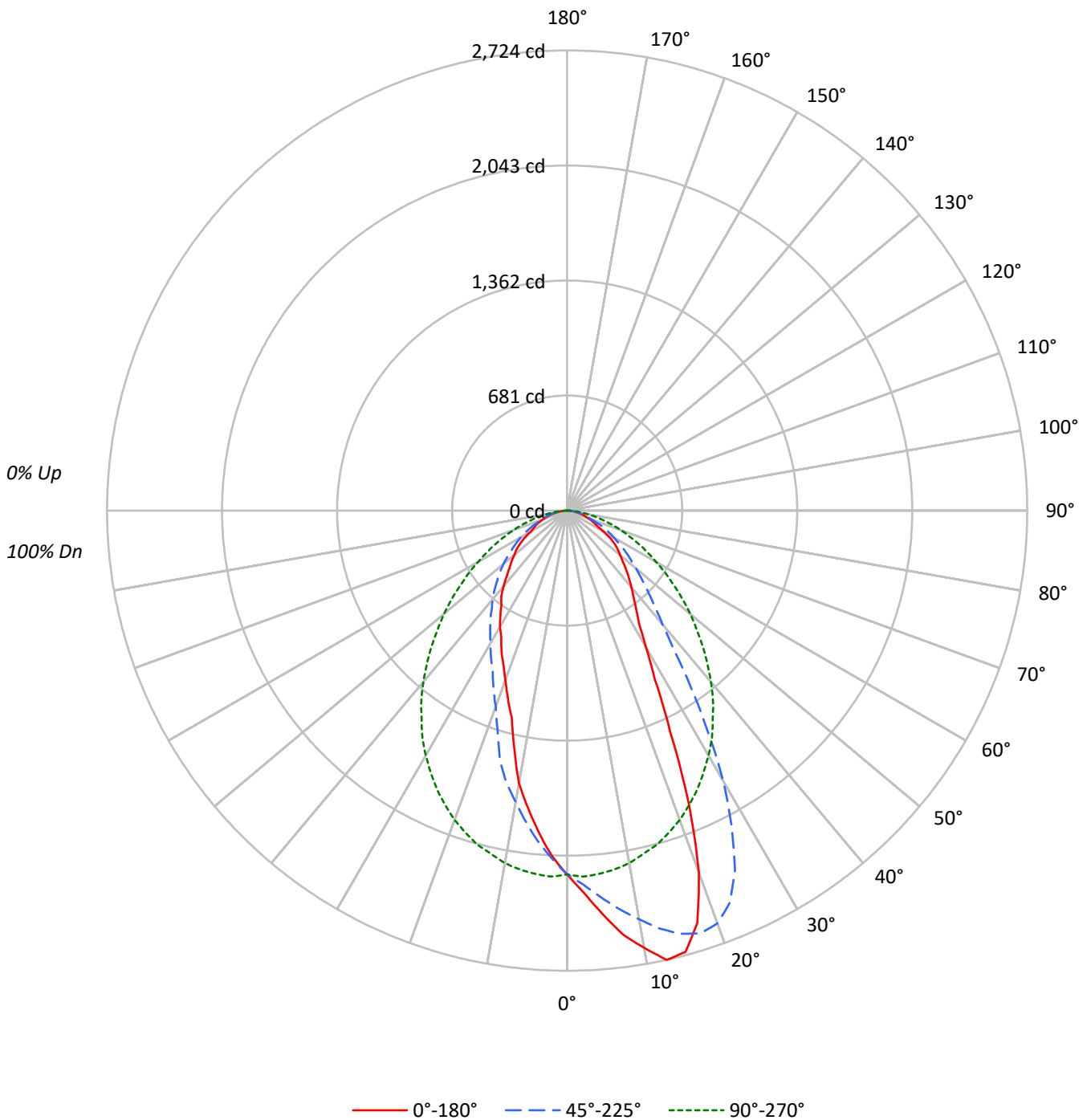
Lumens per Lamp: N/A
Luminaire Lumens: 3721.9 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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

TEST NUMBER: P242406

CATALOG NUMBER: S122RDRP-S1005D840-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P242406

CATALOG NUMBER: S122RDRP-S1005D840-X4F0-XX-UDD-A-W

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°	41027	41027	41027	41027	41027
5°	45818	43931	41283	37620	36604
10°	50835	47522	40992	33900	31730
15°	53336	51151	40392	30240	25001
20°	46238	52731	39502	25046	21632
25°	30325	49404	38284	21927	19314
30°	20411	40674	36805	19967	17481
35°	16533	29706	34945	18412	15766
40°	14700	21829	32919	16990	14588
45°	13304	18145	30542	15745	13024
50°	12108	15723	28187	14547	12064
55°	11384	13918	25574	13147	11234
60°	9524	12118	23177	12061	9410
65°	8027	10794	21048	10727	9109
70°	7418	8588	18796	9462	8588
75°	6940	7764	16360	8920	7934
80°	6406	7064	13459	7799	7064
85°	5879	6054	10621	6207	6207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 44493 cd/sqm



TEST NUMBER: P242406

CATALOG NUMBER: S122RDRP-S1005D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	5.5
10°-20°	570.2	15.3
20°-30°	733.9	19.7
30°-40°	696.2	18.7
40°-50°	596.6	16.0
50°-60°	454.4	12.2
60°-70°	286.6	7.7
70°-80°	143.0	3.8
80°-90°	36.8	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°	1508.4	40.5
0°-40°	2204.6	59.2
0°-60°	3255.5	87.5
0°-90°	3721.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3721.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2154	2154	2154	2154	2154	
5°	2396	2298	2159	1968	1914	236
15°	2705	2594	2048	1534	1268	735
25°	1443	2351	1822	1043	919	681
35°	711	1278	1503	792	678	452
45°	494	674	1134	584	484	382
55°	343	419	770	396	338	302
65°	178	240	467	238	202	180
75°	94	106	222	121	108	100
85°	27	28	49	28	28	30
90°	0	0	0	0	0	



TEST NUMBER: P242406

CATALOG NUMBER: S122RDRP-S1005D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9
2.5°	2263.1	2265.4	2267.6	2262.4	2262.4	2257.9	2248.2	2240.7	2219.7	2216.7	2216.7
5°	2396.3	2394.8	2397.8	2388.1	2374.6	2371.6	2357.4	2338.7	2319.3	2297.6	2293.1
7.5°	2531.1	2522.1	2518.3	2522.8	2508.6	2489.1	2465.2	2442.7	2409.1	2381.4	2364.2
10°	2628.3	2653.0	2638.1	2611.9	2617.1	2581.9	2563.2	2531.1	2504.1	2457.0	2446.5
12.5°	2724.1	2730.1	2727.9	2715.9	2706.2	2684.5	2657.5	2630.6	2575.2	2534.0	2490.6
15°	2704.7	2718.9	2722.6	2718.2	2721.9	2720.4	2706.9	2683.7	2640.3	2593.9	2553.5
17.5°	2561.0	2577.5	2590.9	2602.9	2621.6	2658.3	2669.5	2674.0	2656.0	2623.1	2589.4
20°	2281.1	2264.6	2333.5	2368.7	2398.6	2473.4	2537.8	2562.5	2602.2	2601.4	2593.9
22.5°	1884.4	1893.4	1957.8	2001.2	2103.0	2177.8	2253.4	2363.4	2449.5	2513.1	2552.0
25°	1442.9	1471.3	1536.4	1593.3	1690.6	1829.8	1956.3	2103.0	2241.4	2350.7	2454.7
27.5°	1122.6	1126.3	1185.4	1243.1	1302.9	1423.4	1592.6	1768.4	1966.0	2108.2	2287.8
30°	928.0	923.5	945.2	977.4	1026.8	1115.1	1234.8	1407.0	1603.8	1849.3	2067.8
32.5°	790.3	791.8	806.8	828.5	867.4	919.8	992.4	1124.1	1307.4	1547.7	1813.3
35°	711.0	710.2	722.2	739.4	756.6	794.8	850.9	924.3	1052.2	1277.5	1539.4
37.5°	645.1	648.9	654.1	665.3	686.3	708.7	743.9	795.5	892.8	1032.8	1267.8
40°	591.2	592.7	601.0	609.9	621.2	637.6	665.3	705.0	771.6	877.9	1038.8
42.5°	541.8	543.3	548.6	556.8	565.0	581.5	603.2	636.1	687.0	764.1	889.8
45°	493.9	493.9	499.2	502.9	512.6	527.6	546.3	574.8	612.2	673.6	761.9
47.5°	447.5	447.5	451.3	458.0	464.7	476.7	496.2	520.1	547.1	597.2	675.8
50°	408.6	409.4	411.6	416.9	420.6	431.1	445.3	465.5	493.9	530.6	593.5
52.5°	377.2	376.4	379.4	380.9	383.2	389.9	399.6	416.9	441.5	472.2	521.6
55°	342.8	339.8	344.3	348.0	350.2	353.2	359.2	370.5	392.2	419.1	458.0
57.5°	302.3	300.9	303.1	306.8	313.6	321.1	324.8	332.3	343.5	364.5	405.6
60°	250.0	250.0	256.7	258.9	267.2	277.7	288.1	294.1	305.3	318.1	346.5
62.5°	203.6	204.3	206.6	208.8	212.5	226.0	241.7	256.7	267.2	279.1	295.6
65°	178.1	179.6	179.6	181.1	184.1	187.1	193.1	203.6	222.3	239.5	253.7
67.5°	155.7	155.7	156.4	157.9	158.7	162.4	164.6	169.9	173.6	193.1	212.5
70°	133.2	135.5	134.7	136.2	137.0	138.5	141.4	143.7	150.4	154.2	164.6
72.5°	112.3	113.8	113.8	114.5	116.7	116.7	119.0	121.2	125.0	128.0	132.5
75°	94.3	93.5	94.3	95.8	96.5	97.3	97.3	100.3	102.5	105.5	109.3
77.5°	76.3	77.1	77.1	77.1	77.1	78.6	78.6	80.1	82.3	83.8	86.1
80°	58.4	59.1	58.4	59.1	59.9	60.6	59.9	60.6	62.9	64.4	64.4
82.5°	41.9	41.9	42.7	42.7	42.7	42.7	44.2	44.2	45.7	44.9	45.7
85°	26.9	26.2	26.2	26.2	26.9	27.7	26.9	26.9	27.7	27.7	27.7
87.5°	12.0	12.7	12.7	12.7	12.7	12.7	12.7	13.5	12.7	13.5	12.7
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: P242406

CATALOG NUMBER: S122RDRP-S1005D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9
2.5°	2218.2	2212.2	2207.0	2193.5	2186.8	2171.8	2169.6	2168.8	2149.4	2130.7	2125.4
5°	2281.1	2269.1	2251.2	2230.2	2208.5	2186.0	2171.1	2159.1	2129.2	2100.7	2084.3
7.5°	2343.2	2321.5	2293.1	2257.1	2226.5	2190.5	2165.8	2143.4	2102.2	2064.8	2040.1
10°	2414.3	2372.4	2331.2	2276.6	2233.9	2192.0	2153.1	2119.4	2071.5	2017.7	1979.5
12.5°	2458.5	2411.3	2350.7	2297.6	2239.2	2183.1	2127.7	2082.0	2023.6	1967.5	1920.4
15°	2497.4	2448.0	2379.1	2302.8	2231.7	2162.1	2102.2	2048.3	1975.0	1908.4	1853.0
17.5°	2533.3	2465.2	2394.1	2305.8	2227.2	2142.6	2067.1	1999.7	1919.6	1841.0	1778.2
20°	2549.0	2481.7	2396.3	2308.0	2210.7	2106.7	2023.6	1948.8	1861.2	1773.7	1698.8
22.5°	2539.3	2490.6	2393.3	2283.3	2183.1	2073.0	1976.5	1886.7	1787.2	1697.3	1607.5
25°	2488.4	2470.4	2380.6	2265.4	2151.6	2025.1	1916.6	1821.6	1710.8	1615.0	1520.7
27.5°	2394.8	2421.0	2357.4	2232.4	2109.7	1973.5	1855.3	1748.2	1635.2	1528.2	1433.9
30°	2246.7	2335.7	2311.8	2198.0	2056.6	1923.4	1786.4	1673.4	1550.7	1439.9	1347.1
32.5°	2043.9	2205.5	2240.7	2150.1	2002.7	1853.0	1707.8	1595.6	1466.1	1347.8	1258.0
35°	1826.1	2046.1	2147.1	2086.5	1939.8	1781.9	1633.7	1502.8	1374.0	1258.8	1169.0
37.5°	1567.9	1861.2	2016.9	2010.2	1870.2	1709.3	1548.4	1418.9	1286.5	1172.7	1079.2
40°	1317.9	1642.7	1862.0	1910.6	1796.9	1619.5	1456.4	1323.9	1195.2	1084.4	972.9
42.5°	1093.4	1416.7	1698.8	1792.4	1707.8	1532.0	1368.1	1228.1	1103.9	1000.6	886.1
45°	920.5	1203.4	1500.5	1651.7	1601.6	1438.4	1265.5	1133.8	1016.3	925.8	816.5
47.5°	797.0	1002.8	1301.4	1499.0	1493.0	1338.1	1166.0	1039.5	928.8	844.9	752.1
50°	694.5	868.1	1111.4	1343.4	1362.8	1237.8	1076.2	951.2	849.4	760.4	689.3
52.5°	602.5	737.9	950.5	1170.5	1234.8	1130.8	975.2	862.1	764.1	684.0	625.7
55°	524.6	635.4	801.5	1009.6	1093.4	1017.1	877.9	770.1	690.0	621.2	568.8
57.5°	456.5	543.3	681.8	856.2	951.2	899.6	780.6	691.5	620.4	556.1	514.1
60°	392.9	461.0	574.0	714.0	821.7	788.1	690.0	608.4	550.1	496.2	457.3
62.5°	333.0	389.2	482.0	589.0	685.5	676.5	601.0	535.8	486.5	438.6	407.1
65°	277.7	320.3	395.9	485.0	564.3	571.0	513.4	467.0	421.3	382.4	353.2
67.5°	229.8	258.9	315.8	394.4	455.0	476.0	437.1	399.6	362.2	330.8	304.6
70°	186.3	208.8	247.7	308.3	363.0	385.4	365.2	337.5	306.1	281.4	259.7
72.5°	142.2	163.9	190.1	230.5	275.4	300.1	296.4	278.4	254.5	235.0	214.8
75°	113.8	120.5	139.9	169.9	206.6	227.5	232.7	222.3	202.1	186.3	174.4
77.5°	88.3	92.8	103.3	121.2	146.7	165.4	173.6	172.1	157.2	146.7	135.5
80°	67.4	69.6	74.1	80.8	98.8	117.5	122.7	122.7	113.0	109.3	98.0
82.5°	47.1	48.6	50.9	53.9	59.9	75.6	81.6	83.1	77.8	72.6	64.4
85°	29.2	28.4	29.9	32.2	33.7	38.2	47.1	48.6	47.1	41.2	38.9
87.5°	12.7	13.5	13.5	12.7	13.5	14.2	18.0	21.7	18.7	16.5	15.0
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: P242406

CATALOG NUMBER: S122RDRP-S1005D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9
2.5°	2115.7	2110.5	2100.7	2085.8	2076.8	2061.1	2050.6	2056.6	2058.1	2056.6	2055.1
5°	2066.3	2050.6	2028.9	2007.9	1988.5	1967.5	1955.5	1950.3	1939.8	1933.8	1930.8
7.5°	2010.2	1987.0	1956.3	1922.6	1891.2	1861.2	1847.8	1837.3	1817.8	1807.4	1797.6
10°	1945.8	1903.2	1872.5	1824.6	1795.4	1752.7	1723.5	1724.3	1695.1	1678.6	1666.7
12.5°	1874.7	1826.8	1770.7	1728.8	1685.4	1653.2	1616.5	1598.6	1567.1	1551.4	1514.0
15°	1794.6	1740.0	1686.1	1627.7	1586.6	1533.5	1482.6	1420.4	1370.3	1326.9	1314.9
17.5°	1709.3	1642.0	1588.8	1529.0	1464.6	1368.1	1305.2	1267.0	1237.1	1214.6	1196.7
20°	1621.0	1552.2	1494.5	1391.3	1296.2	1235.6	1192.2	1164.5	1133.1	1108.4	1094.9
22.5°	1528.2	1455.6	1371.8	1253.6	1184.7	1139.0	1101.6	1068.7	1050.0	1032.0	1020.1
25°	1441.4	1362.8	1233.3	1154.0	1094.1	1043.3	1016.3	996.9	974.4	948.2	936.2
27.5°	1350.8	1225.9	1127.8	1070.2	1008.8	976.6	953.4	921.3	901.1	891.3	877.9
30°	1246.8	1121.8	1049.2	984.9	944.5	907.8	879.4	862.9	843.4	823.2	815.0
32.5°	1130.8	1037.3	968.4	917.5	876.4	846.4	825.5	796.3	783.6	773.1	753.6
35°	1038.8	963.2	899.6	856.2	817.2	791.8	765.6	749.9	724.4	714.0	707.2
37.5°	954.9	889.1	841.2	793.3	763.4	733.4	718.5	692.3	682.5	666.1	652.6
40°	886.1	821.7	776.1	738.7	704.2	683.3	663.1	642.9	626.4	619.7	602.5
42.5°	815.7	766.4	720.7	678.8	658.6	636.1	609.2	595.7	578.5	566.5	557.6
45°	752.1	705.7	666.8	633.1	607.7	584.5	568.0	543.3	533.6	511.9	502.9
47.5°	696.0	651.1	613.7	580.8	555.3	541.8	517.9	496.2	482.7	467.7	455.0
50°	635.4	599.5	563.5	535.1	512.6	490.9	466.2	456.5	432.6	425.8	419.1
52.5°	580.0	546.3	514.1	486.5	464.0	443.0	422.1	408.6	394.4	387.7	383.2
55°	529.1	496.2	464.7	440.1	417.6	395.9	382.4	366.7	359.2	354.0	348.0
57.5°	476.7	446.8	422.1	396.6	374.2	356.2	339.8	330.8	323.3	317.3	309.1
60°	427.3	398.9	377.2	354.0	330.8	316.6	304.6	293.4	284.4	273.9	270.9
62.5°	374.9	351.0	331.5	309.1	289.6	276.9	265.7	255.2	244.0	227.5	223.0
65°	327.8	308.3	287.4	268.7	250.7	238.0	221.5	209.5	205.1	203.6	202.8
67.5°	284.4	265.7	247.7	228.3	211.8	197.6	187.8	186.3	183.4	182.6	180.4
70°	241.0	223.8	205.8	187.8	172.1	169.9	166.9	163.9	160.2	158.7	157.2
72.5°	202.1	184.1	166.1	152.7	148.2	145.2	142.2	139.2	137.0	135.5	134.7
75°	160.9	144.4	132.5	127.2	123.5	121.2	116.7	114.5	113.0	110.8	110.0
77.5°	122.7	112.3	106.3	103.3	98.8	96.5	93.5	91.3	89.1	89.1	87.6
80°	88.3	83.8	80.1	75.6	74.1	71.1	70.3	68.1	68.9	66.6	66.6
82.5°	63.6	57.6	54.6	53.1	51.6	49.4	48.6	47.9	47.9	46.4	46.4
85°	35.2	33.7	32.2	30.7	30.7	28.4	29.2	28.4	28.4	26.9	26.2
87.5°	14.2	13.5	12.0	12.0	12.0	11.2	11.2	10.5	10.5	10.5	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



TEST NUMBER: P242406

CATALOG NUMBER: S122RDRP-S1005D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2153.9	2153.9	2153.9	2153.9
2.5°	2046.8	2048.3	2046.1	2047.6
5°	1927.1	1918.1	1916.6	1914.4
7.5°	1785.7	1784.9	1780.4	1775.2
10°	1650.2	1646.5	1645.7	1640.5
12.5°	1491.5	1462.4	1459.4	1444.4
15°	1297.0	1292.5	1277.5	1267.8
17.5°	1188.4	1173.5	1168.2	1166.0
20°	1084.4	1070.9	1068.7	1067.2
22.5°	1012.6	998.4	991.6	986.4
25°	928.8	923.5	920.5	919.0
27.5°	862.9	849.4	847.9	844.2
30°	808.3	804.5	799.3	794.8
32.5°	743.9	740.9	736.4	734.9
35°	699.7	689.3	684.8	678.0
37.5°	651.1	645.1	637.6	640.6
40°	592.7	589.0	587.5	586.7
42.5°	546.3	534.4	529.9	529.9
45°	499.2	489.4	482.7	483.5
47.5°	448.3	449.0	444.5	446.0
50°	413.9	409.4	406.4	407.1
52.5°	380.9	377.2	374.9	378.7
55°	344.3	339.8	339.0	338.3
57.5°	304.6	302.3	298.6	296.4
60°	261.2	255.2	247.7	247.0
62.5°	221.5	221.5	221.5	221.5
65°	201.3	200.6	201.3	202.1
67.5°	180.4	178.9	177.4	178.1
70°	155.7	154.9	154.2	154.2
72.5°	131.7	131.7	131.0	130.2
75°	109.3	107.8	107.8	107.8
77.5°	87.6	86.8	86.1	85.3
80°	65.9	65.1	64.4	64.4
82.5°	46.4	45.7	45.7	44.9
85°	26.9	27.7	26.9	28.4
87.5°	9.7	9.0	9.7	9.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242406
 CATALOG NUMBER: S122RDRP-S1005D840-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	18.44	19.89	18.80	20.20	20.52	24.34	25.79	24.70	26.10	26.42
	3H	19.55	20.85	19.93	21.18	21.54	25.50	26.79	25.87	27.12	27.49
	4H	20.01	21.22	20.41	21.57	21.95	25.89	27.11	26.29	27.46	27.84
	6H	20.37	21.50	20.79	21.86	22.26	26.16	27.28	26.57	27.65	28.04
	8H	20.50	21.56	20.92	21.95	22.36	26.23	27.29	26.66	27.68	28.09
	12H	20.58	21.60	21.01	21.98	22.41	26.27	27.29	26.70	27.67	28.10
4H	2H	19.15	20.37	19.55	20.72	21.10	24.30	25.52	24.70	25.87	26.25
	3H	20.42	21.43	20.83	21.83	22.23	25.60	26.60	26.01	27.01	27.41
	4H	20.97	21.87	21.40	22.29	22.73	26.09	27.00	26.53	27.41	27.85
	6H	21.44	22.23	21.90	22.67	23.13	26.48	27.26	26.94	27.71	28.17
	8H	21.60	22.33	22.07	22.78	23.25	26.59	27.32	27.06	27.77	28.24
	12H	21.72	22.37	22.20	22.85	23.32	26.67	27.32	27.15	27.80	28.27
8H	4H	21.31	22.05	21.78	22.49	22.96	26.08	26.81	26.54	27.25	27.72
	6H	21.88	22.49	22.38	22.98	23.46	26.50	27.11	27.00	27.60	28.08
	8H	22.11	22.65	22.62	23.16	23.65	26.65	27.19	27.17	27.71	28.20
	12H	22.29	22.77	22.81	23.26	23.83	26.78	27.25	27.29	27.75	28.31
12H	4H	21.35	22.01	21.84	22.49	22.96	26.05	26.71	26.54	27.19	27.66
	6H	21.95	22.49	22.46	23.00	23.49	26.48	27.02	26.99	27.53	28.02
	8H	22.23	22.70	22.74	23.20	23.76	26.66	27.14	27.17	27.63	28.20