

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: P242396

Luminaire Tested: S122RDRP-S1005D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242396
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-S1005D830-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

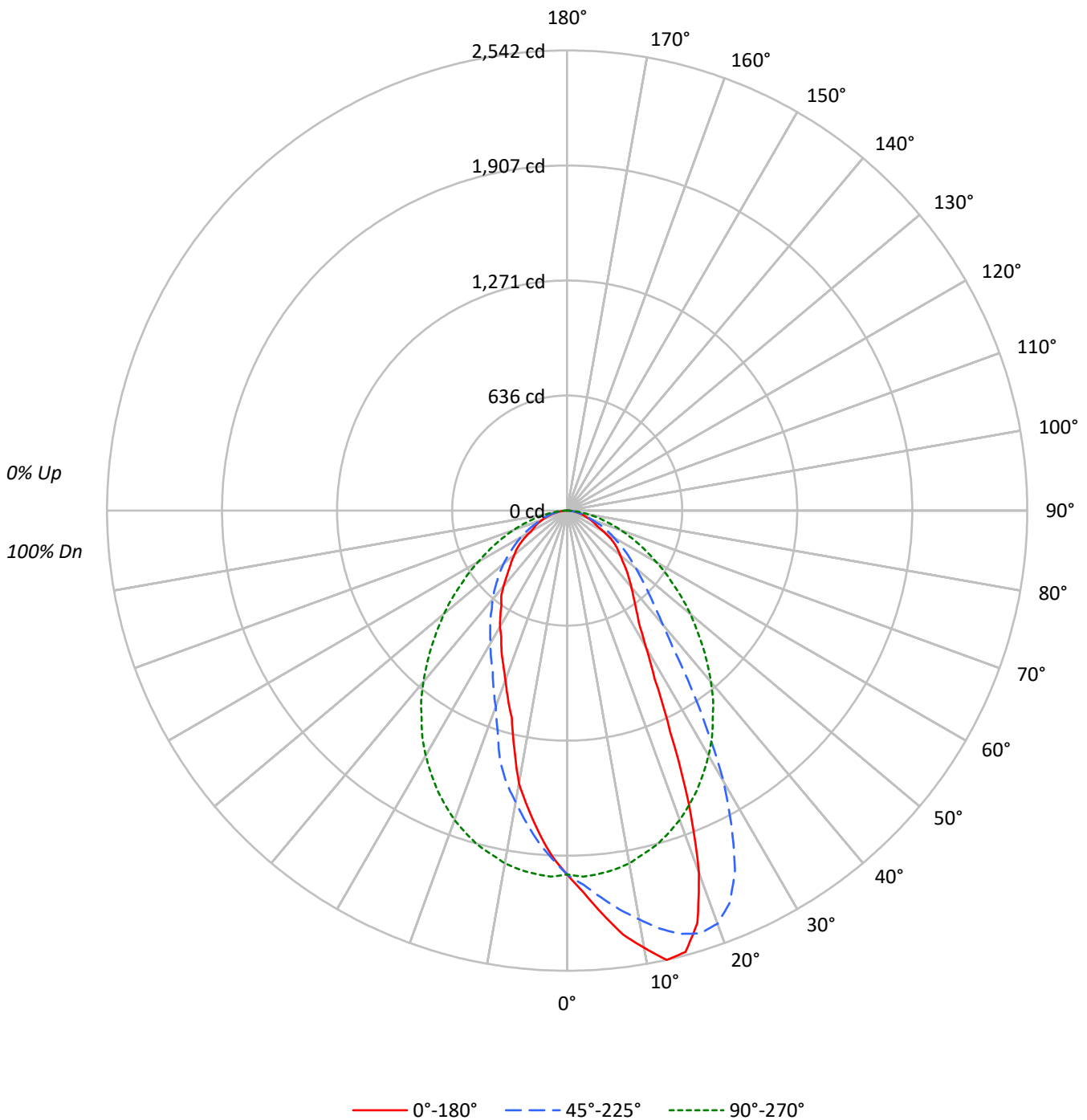
Lumens per Lamp: N/A
Luminaire Lumens: 3473.8 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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

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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°	38292	38292	38292	38292	38292
5°	42765	41002	38532	35113	34164
10°	47447	44354	38260	31641	29614
15°	49780	47741	37700	28223	23334
20°	43155	49216	36869	23376	20191
25°	28303	46111	35731	20464	18028
30°	19049	37962	34351	18636	16315
35°	15431	27725	32615	17184	14714
40°	13721	20372	30723	15856	13616
45°	12418	16933	28505	14694	12154
50°	11302	14674	26308	13578	11261
55°	10623	12991	23870	12271	10484
60°	8888	11311	21634	11257	8781
65°	7491	10073	19646	10010	8500
70°	6922	8014	17543	8833	8014
75°	6476	7249	15271	8331	7404
80°	5978	6592	12571	7284	6592
85°	5486	5639	9922	5792	5792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 41527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	5.5
10°-20°	532.2	15.3
20°-30°	684.9	19.7
30°-40°	649.8	18.7
40°-50°	556.8	16.0
50°-60°	424.1	12.2
60°-70°	267.5	7.7
70°-80°	133.5	3.8
80°-90°	34.3	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°	1407.8	40.5
0°-40°	2057.6	59.2
0°-60°	3038.5	87.5
0°-90°	3473.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2010	2010	2010	2010	2010	
5°	2237	2144	2015	1836	1787	220
15°	2524	2421	1912	1431	1183	686
25°	1347	2194	1700	974	858	636
35°	664	1192	1403	739	633	422
45°	461	629	1058	546	451	357
55°	320	391	719	370	316	282
65°	166	224	436	222	189	168
75°	88	98	208	113	101	93
85°	25	26	45	26	26	28
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°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2112.3	2114.4	2116.4	2111.6	2111.6	2107.4	2098.3	2091.3	2071.7	2069.0	2069.0
5°	2236.6	2235.2	2238.0	2228.9	2216.3	2213.5	2200.3	2182.8	2164.6	2144.4	2140.2
7.5°	2362.3	2353.9	2350.4	2354.6	2341.4	2323.2	2300.9	2279.9	2248.5	2222.6	2206.6
10°	2453.1	2476.2	2462.2	2437.8	2442.6	2409.8	2392.4	2362.3	2337.2	2293.2	2283.4
12.5°	2542.5	2548.1	2546.0	2534.9	2525.8	2505.5	2480.4	2455.2	2403.5	2365.1	2324.6
15°	2524.4	2537.6	2541.1	2536.9	2540.4	2539.0	2526.5	2504.8	2464.3	2421.0	2383.3
17.5°	2390.3	2405.6	2418.2	2429.4	2446.8	2481.1	2491.5	2495.7	2479.0	2448.2	2416.8
20°	2129.0	2113.7	2177.9	2210.7	2238.7	2308.5	2368.6	2391.7	2428.7	2428.0	2421.0
22.5°	1758.8	1767.2	1827.3	1867.8	1962.8	2032.6	2103.2	2205.9	2286.2	2345.6	2381.9
25°	1346.7	1373.2	1434.0	1487.1	1577.9	1707.8	1825.9	1962.8	2092.0	2194.0	2291.1
27.5°	1047.7	1051.2	1106.4	1160.2	1216.1	1328.5	1486.4	1650.6	1835.0	1967.7	2135.3
30°	866.1	861.9	882.2	912.2	958.3	1040.8	1152.5	1313.2	1496.9	1726.0	1930.0
32.5°	737.6	739.0	753.0	773.2	809.6	858.5	926.2	1049.1	1220.3	1444.5	1692.5
35°	663.6	662.9	674.1	690.1	706.2	741.8	794.2	862.6	982.1	1192.3	1436.8
37.5°	602.1	605.6	610.5	621.0	640.5	661.5	694.3	742.5	833.3	963.9	1183.3
40°	551.8	553.2	560.9	569.3	579.8	595.1	621.0	658.0	720.2	819.3	969.5
42.5°	505.7	507.1	512.0	519.7	527.4	542.7	563.0	593.7	641.2	713.2	830.5
45°	461.0	461.0	465.9	469.4	478.5	492.4	509.9	536.4	571.4	628.6	711.1
47.5°	417.7	417.7	421.2	427.5	433.8	444.9	463.1	485.5	510.6	557.4	630.7
50°	381.4	382.1	384.2	389.1	392.6	402.3	415.6	434.5	461.0	495.2	553.9
52.5°	352.0	351.3	354.1	355.5	357.6	363.9	373.0	389.1	412.1	440.8	486.9
55°	319.9	317.1	321.3	324.8	326.9	329.7	335.3	345.8	366.0	391.2	427.5
57.5°	282.2	280.8	282.9	286.4	292.7	299.7	303.1	310.1	320.6	340.2	378.6
60°	233.3	233.3	239.6	241.7	249.4	259.1	268.9	274.5	285.0	296.9	323.4
62.5°	190.0	190.7	192.8	194.9	198.4	210.9	225.6	239.6	249.4	260.5	275.9
65°	166.2	167.6	167.6	169.0	171.8	174.6	180.2	190.0	207.5	223.5	236.8
67.5°	145.3	145.3	146.0	147.4	148.1	151.6	153.7	158.6	162.1	180.2	198.4
70°	124.3	126.4	125.7	127.1	127.8	129.2	132.0	134.1	140.4	143.9	153.7
72.5°	104.8	106.2	106.2	106.9	109.0	109.0	111.1	113.2	116.6	119.4	123.6
75°	88.0	87.3	88.0	89.4	90.1	90.8	90.8	93.6	95.7	98.5	102.0
77.5°	71.2	71.9	71.9	71.9	71.9	73.3	73.3	74.7	76.8	78.2	80.3
80°	54.5	55.2	54.5	55.2	55.9	56.6	55.9	56.6	58.7	60.1	60.1
82.5°	39.1	39.1	39.8	39.8	39.8	39.8	41.2	41.2	42.6	41.9	42.6
85°	25.1	24.4	24.4	24.4	25.1	25.8	25.1	25.1	25.8	25.8	25.8
87.5°	11.2	11.9	11.9	11.9	11.9	11.9	11.9	12.6	11.9	12.6	11.9
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°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2070.3	2064.8	2059.9	2047.3	2041.0	2027.0	2024.9	2024.2	2006.1	1988.6	1983.7
5°	2129.0	2117.8	2101.1	2081.5	2061.3	2040.3	2026.3	2015.2	1987.2	1960.7	1945.3
7.5°	2187.0	2166.7	2140.2	2106.7	2078.0	2044.5	2021.5	2000.5	1962.1	1927.2	1904.1
10°	2253.4	2214.2	2175.8	2124.8	2085.0	2045.9	2009.6	1978.1	1933.4	1883.2	1847.5
12.5°	2294.6	2250.6	2194.0	2144.4	2089.9	2037.5	1985.8	1943.2	1888.7	1836.4	1792.3
15°	2330.9	2284.8	2220.5	2149.3	2082.9	2018.0	1962.1	1911.8	1843.3	1781.2	1729.5
17.5°	2364.4	2300.9	2234.5	2152.1	2078.7	1999.8	1929.3	1866.4	1791.6	1718.3	1659.6
20°	2379.1	2316.2	2236.6	2154.2	2063.4	1966.3	1888.7	1818.9	1737.2	1655.4	1585.6
22.5°	2370.0	2324.6	2233.8	2131.1	2037.5	1934.8	1844.7	1760.9	1668.0	1584.2	1500.4
25°	2322.5	2305.7	2221.9	2114.4	2008.2	1890.1	1788.9	1700.1	1596.8	1507.4	1419.3
27.5°	2235.2	2259.6	2200.3	2083.6	1969.1	1841.9	1731.6	1631.7	1526.2	1426.3	1338.3
30°	2096.9	2180.0	2157.7	2051.5	1919.5	1795.1	1667.3	1561.8	1447.3	1343.9	1257.3
32.5°	1907.6	2058.5	2091.3	2006.8	1869.2	1729.5	1594.0	1489.2	1368.4	1258.0	1174.2
35°	1704.3	1909.7	2004.0	1947.4	1810.5	1663.1	1524.8	1402.6	1282.4	1174.9	1091.1
37.5°	1463.4	1737.2	1882.5	1876.2	1745.5	1595.4	1445.2	1324.4	1200.7	1094.5	1007.2
40°	1230.1	1533.2	1737.9	1783.3	1677.1	1511.6	1359.3	1235.6	1115.5	1012.1	908.0
42.5°	1020.5	1322.3	1585.6	1672.9	1594.0	1429.8	1276.9	1146.2	1030.3	933.9	827.0
45°	859.2	1123.2	1400.5	1541.6	1494.8	1342.5	1181.2	1058.2	948.6	864.0	762.1
47.5°	743.9	936.0	1214.7	1399.1	1393.5	1248.9	1088.3	970.2	866.8	788.6	702.0
50°	648.2	810.3	1037.3	1253.8	1272.0	1155.3	1004.4	887.8	792.8	709.7	643.3
52.5°	562.3	688.7	887.1	1092.5	1152.5	1055.4	910.1	804.7	713.2	638.4	583.9
55°	489.6	593.0	748.1	942.3	1020.5	949.3	819.3	718.8	644.0	579.8	530.9
57.5°	426.1	507.1	636.3	799.1	887.8	839.6	728.5	645.4	579.1	519.0	479.9
60°	366.7	430.3	535.7	666.4	767.0	735.5	644.0	567.9	513.4	463.1	426.8
62.5°	310.8	363.2	449.8	549.7	639.8	631.4	560.9	500.1	454.0	409.3	380.0
65°	259.1	299.0	369.5	452.6	526.7	533.0	479.2	435.9	393.3	356.9	329.7
67.5°	214.4	241.7	294.8	368.1	424.7	444.2	407.9	373.0	338.1	308.7	284.3
70°	173.9	194.9	231.2	287.8	338.8	359.7	340.9	315.0	285.7	262.6	242.4
72.5°	132.7	153.0	177.4	215.1	257.0	280.1	276.6	259.8	237.5	219.3	200.5
75°	106.2	112.5	130.6	158.6	192.8	212.3	217.2	207.5	188.6	173.9	162.8
77.5°	82.4	86.6	96.4	113.2	136.9	154.4	162.1	160.7	146.7	136.9	126.4
80°	62.9	65.0	69.2	75.4	92.2	109.7	114.6	114.6	105.5	102.0	91.5
82.5°	44.0	45.4	47.5	50.3	55.9	70.5	76.1	77.5	72.6	67.8	60.1
85°	27.2	26.5	27.9	30.0	31.4	35.6	44.0	45.4	44.0	38.4	36.3
87.5°	11.9	12.6	12.6	11.9	12.6	13.3	16.8	20.3	17.5	15.4	14.0
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°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	1974.7	1969.8	1960.7	1946.7	1938.3	1923.7	1913.9	1919.5	1920.9	1919.5	1918.1
5°	1928.6	1913.9	1893.6	1874.1	1855.9	1836.4	1825.2	1820.3	1810.5	1804.9	1802.1
7.5°	1876.2	1854.5	1825.9	1794.4	1765.1	1737.2	1724.6	1714.8	1696.7	1686.9	1677.8
10°	1816.1	1776.3	1747.6	1702.9	1675.7	1635.9	1608.6	1609.3	1582.1	1566.7	1555.6
12.5°	1749.7	1705.0	1652.6	1613.5	1573.0	1543.0	1508.8	1492.0	1462.7	1448.0	1413.1
15°	1675.0	1624.0	1573.7	1519.2	1480.8	1431.2	1383.7	1325.7	1279.0	1238.4	1227.3
17.5°	1595.4	1532.5	1482.9	1427.0	1367.0	1276.9	1218.2	1182.6	1154.6	1133.7	1116.9
20°	1512.9	1448.7	1394.9	1298.5	1209.8	1153.2	1112.7	1086.9	1057.5	1034.5	1021.9
22.5°	1426.3	1358.6	1280.3	1170.0	1105.7	1063.1	1028.2	997.5	980.0	963.2	952.1
25°	1345.3	1272.0	1151.1	1077.1	1021.2	973.7	948.6	930.4	909.4	885.0	873.8
27.5°	1260.8	1144.1	1052.6	998.9	941.6	911.5	889.9	859.9	841.0	831.9	819.3
30°	1163.7	1047.0	979.3	919.2	881.5	847.3	820.7	805.4	787.2	768.3	760.7
32.5°	1055.4	968.1	903.9	856.4	817.9	790.0	770.4	743.2	731.3	721.5	703.4
35°	969.5	899.0	839.6	799.1	762.8	739.0	714.6	699.9	676.1	666.4	660.1
37.5°	891.3	829.8	785.1	740.4	712.5	684.5	670.6	646.1	637.0	621.7	609.1
40°	827.0	767.0	724.3	689.4	657.3	637.7	618.9	600.0	584.6	578.4	562.3
42.5°	761.4	715.3	672.7	633.5	614.7	593.7	568.6	556.0	539.9	528.8	520.4
45°	702.0	658.7	622.4	590.9	567.2	545.5	530.2	507.1	498.0	477.8	469.4
47.5°	649.6	607.7	572.8	542.0	518.3	505.7	483.4	463.1	450.5	436.6	424.7
50°	593.0	559.5	526.0	499.4	478.5	458.2	435.2	426.1	403.7	397.4	391.2
52.5°	541.3	509.9	479.9	454.0	433.1	413.5	394.0	381.4	368.1	361.8	357.6
55°	493.8	463.1	433.8	410.7	389.8	369.5	356.9	342.3	335.3	330.4	324.8
57.5°	444.9	417.0	394.0	370.2	349.2	332.5	317.1	308.7	301.8	296.2	288.5
60°	398.8	372.3	352.0	330.4	308.7	295.5	284.3	273.8	265.4	255.7	252.9
62.5°	349.9	327.6	309.4	288.5	270.3	258.4	248.0	238.2	227.7	212.3	208.2
65°	305.9	287.8	268.2	250.8	234.0	222.1	206.8	195.6	191.4	190.0	189.3
67.5°	265.4	248.0	231.2	213.0	197.7	184.4	175.3	173.9	171.1	170.4	168.3
70°	224.9	208.9	192.1	175.3	160.7	158.6	155.8	153.0	149.5	148.1	146.7
72.5°	188.6	171.8	155.1	142.5	138.3	135.5	132.7	129.9	127.8	126.4	125.7
75°	150.2	134.8	123.6	118.7	115.3	113.2	109.0	106.9	105.5	103.4	102.7
77.5°	114.6	104.8	99.2	96.4	92.2	90.1	87.3	85.2	83.1	83.1	81.7
80°	82.4	78.2	74.7	70.5	69.2	66.4	65.7	63.6	64.3	62.2	62.2
82.5°	59.4	53.8	51.0	49.6	48.2	46.1	45.4	44.7	44.7	43.3	43.3
85°	32.8	31.4	30.0	28.6	28.6	26.5	27.2	26.5	26.5	25.1	24.4
87.5°	13.3	12.6	11.2	11.2	11.2	10.5	10.5	9.8	9.8	9.8	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



TEST NUMBER: P242396

CATALOG NUMBER: S122RDRP-S1005D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2010.3	2010.3	2010.3	2010.3
2.5°	1910.4	1911.8	1909.7	1911.1
5°	1798.6	1790.3	1788.9	1786.8
7.5°	1666.6	1665.9	1661.7	1656.8
10°	1540.2	1536.7	1536.0	1531.1
12.5°	1392.1	1364.9	1362.1	1348.1
15°	1210.5	1206.3	1192.3	1183.3
17.5°	1109.2	1095.2	1090.4	1088.3
20°	1012.1	999.6	997.5	996.1
22.5°	945.1	931.8	925.5	920.6
25°	866.8	861.9	859.2	857.8
27.5°	805.4	792.8	791.4	787.9
30°	754.4	750.9	746.0	741.8
32.5°	694.3	691.5	687.3	685.9
35°	653.1	643.3	639.1	632.8
37.5°	607.7	602.1	595.1	597.9
40°	553.2	549.7	548.3	547.6
42.5°	509.9	498.7	494.5	494.5
45°	465.9	456.8	450.5	451.2
47.5°	418.4	419.1	414.9	416.3
50°	386.3	382.1	379.3	380.0
52.5°	355.5	352.0	349.9	353.4
55°	321.3	317.1	316.4	315.7
57.5°	284.3	282.2	278.7	276.6
60°	243.8	238.2	231.2	230.5
62.5°	206.8	206.8	206.8	206.8
65°	187.9	187.2	187.9	188.6
67.5°	168.3	166.9	165.5	166.2
70°	145.3	144.6	143.9	143.9
72.5°	122.9	122.9	122.2	121.5
75°	102.0	100.6	100.6	100.6
77.5°	81.7	81.0	80.3	79.6
80°	61.5	60.8	60.1	60.1
82.5°	43.3	42.6	42.6	41.9
85°	25.1	25.8	25.1	26.5
87.5°	9.1	8.4	9.1	8.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242396
 CATALOG NUMBER: S122RDRP-S1005D830-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	18.20	19.65	18.56	19.97	20.28	24.10	25.55	24.46	25.86	26.18
	3H	19.31	20.61	19.69	20.94	21.30	25.26	26.56	25.63	26.88	27.25
	4H	19.77	20.98	20.17	21.33	21.71	25.65	26.87	26.05	27.22	27.60
	6H	20.13	21.26	20.55	21.62	22.02	25.92	27.04	26.33	27.41	27.80
	8H	20.26	21.32	20.68	21.71	22.12	25.99	27.05	26.42	27.44	27.85
	12H	20.34	21.36	20.77	21.74	22.17	26.03	27.05	26.46	27.43	27.86
4H	2H	18.91	20.13	19.31	20.48	20.86	24.06	25.28	24.46	25.63	26.01
	3H	20.18	21.19	20.59	21.59	21.99	25.36	26.37	25.77	26.77	27.17
	4H	20.73	21.63	21.16	22.05	22.49	25.85	26.76	26.29	27.17	27.61
	6H	21.20	21.99	21.66	22.43	22.89	26.24	27.02	26.70	27.47	27.93
	8H	21.36	22.09	21.83	22.54	23.01	26.35	27.08	26.82	27.53	28.00
	12H	21.48	22.13	21.96	22.61	23.08	26.43	27.08	26.91	27.56	28.03
8H	4H	21.07	21.81	21.54	22.25	22.72	25.84	26.57	26.30	27.01	27.48
	6H	21.64	22.25	22.14	22.74	23.22	26.27	26.87	26.76	27.36	27.84
	8H	21.87	22.41	22.38	22.92	23.41	26.41	26.96	26.93	27.47	27.96
	12H	22.05	22.53	22.56	23.02	23.59	26.54	27.01	27.05	27.51	28.07
12H	4H	21.11	21.77	21.60	22.25	22.72	25.81	26.47	26.30	26.95	27.42
	6H	21.71	22.25	22.22	22.76	23.25	26.24	26.78	26.75	27.29	27.78
	8H	21.98	22.46	22.50	22.95	23.52	26.42	26.90	26.93	27.39	27.96