

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: P243153

Luminaire Tested: S122DRP-H1005D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-H1005D830-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

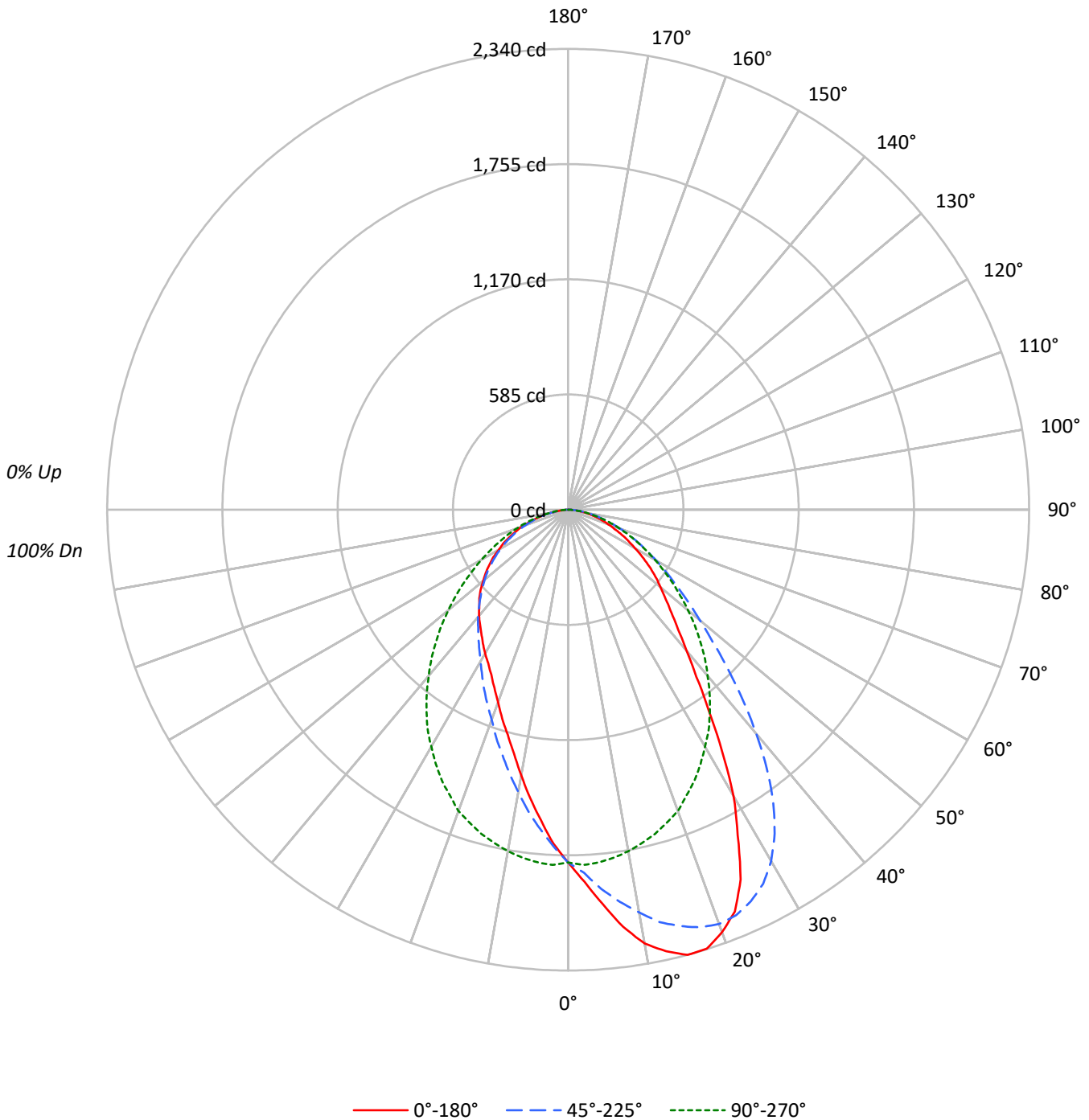
Lumens per Lamp: N/A
Luminaire Lumens: 3975.1 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66					63				
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45					43				
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	34122	34122	34122	34122	34122
5°	38436	36966	34367	31120	30272
10°	43265	40149	34059	28173	26492
15°	46150	43156	33600	25428	23350
20°	46283	45383	32992	22994	21073
25°	43530	46107	31895	21179	19424
30°	36951	45322	30563	19540	18548
35°	28889	42211	29136	18454	17851
40°	23211	36910	27381	17704	17507
45°	19966	30932	25574	16965	17181
50°	18115	25796	23537	16405	16698
55°	16687	22170	21443	15764	16249
60°	15002	19551	19322	15029	15509
65°	13508	17478	17361	14076	14761
70°	12035	15510	15432	12887	13812
75°	10833	13512	13269	11415	12099
80°	9455	11199	10695	9313	9455
85°	8108	9266	7977	6229	5223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 42774 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	4.3
10°-20°	490.5	12.3
20°-30°	713.4	17.9
30°-40°	765.2	19.3
40°-50°	685.8	17.3
50°-60°	546.7	13.8
60°-70°	369.8	9.3
70°-80°	188.6	4.7
80°-90°	44.2	1.1
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°	1374.6	34.6
0°-40°	2139.8	53.8
0°-60°	3372.4	84.8
0°-90°	3975.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3975.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1791	1791	1791	1791	1791	
5°	2010	1933	1797	1628	1583	199
15°	2340	2188	1704	1290	1184	655
25°	2071	2194	1518	1008	924	932
35°	1242	1815	1253	794	768	787
45°	741	1148	949	630	638	580
55°	502	668	646	475	489	449
65°	300	388	385	312	328	297
75°	147	184	180	155	164	157
85°	37	42	36	28	24	43
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°	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4
2.5°	1890.8	1896.8	1891.5	1889.5	1885.5	1884.2	1873.6	1865.0	1859.7	1845.1	1846.4
5°	2010.2	2023.4	2016.1	2015.5	2000.9	1991.6	1982.3	1969.1	1949.2	1933.3	1920.7
7.5°	2136.1	2129.5	2127.5	2120.2	2109.6	2096.4	2075.8	2056.6	2031.4	2008.2	1991.0
10°	2236.9	2234.9	2238.2	2219.7	2213.1	2192.5	2174.6	2144.8	2112.3	2075.8	2053.3
12.5°	2296.6	2302.6	2307.2	2299.9	2284.0	2278.0	2248.2	2206.4	2195.2	2145.4	2118.2
15°	2340.3	2343.0	2343.7	2335.7	2327.7	2312.5	2294.6	2268.1	2231.6	2188.5	2168.0
17.5°	2337.7	2337.0	2341.0	2336.4	2331.7	2327.1	2313.2	2292.6	2264.1	2223.7	2189.2
20°	2283.3	2295.3	2304.5	2306.5	2305.9	2308.5	2301.9	2288.6	2268.1	2238.9	2199.8
22.5°	2209.1	2204.4	2224.3	2223.0	2231.6	2251.5	2260.1	2254.8	2246.9	2228.3	2197.1
25°	2071.2	2075.8	2089.7	2104.3	2138.1	2150.1	2175.9	2195.8	2198.5	2193.8	2174.6
27.5°	1864.3	1897.5	1904.8	1924.0	1971.1	2010.2	2062.6	2093.7	2138.1	2142.1	2133.5
30°	1680.0	1678.7	1690.0	1724.4	1767.5	1826.5	1894.2	1974.4	2025.4	2060.6	2073.2
32.5°	1453.3	1458.6	1487.7	1530.2	1573.9	1632.9	1711.2	1809.3	1877.6	1950.5	1991.6
35°	1242.4	1259.0	1286.9	1316.0	1363.8	1444.6	1531.5	1613.0	1717.8	1815.3	1881.6
37.5°	1068.7	1091.3	1112.5	1140.3	1186.7	1249.1	1327.3	1435.4	1539.5	1656.8	1754.3
40°	933.5	942.1	956.7	983.9	1015.0	1077.4	1156.2	1237.1	1349.8	1484.4	1612.4
42.5°	827.4	825.4	841.3	858.6	887.1	933.5	1002.4	1083.3	1195.4	1314.7	1444.0
45°	741.2	741.9	748.5	766.4	789.0	815.5	868.5	944.8	1029.6	1148.3	1285.5
47.5°	670.9	672.9	682.9	695.5	708.7	733.3	768.4	818.1	897.7	997.1	1125.8
50°	611.3	614.6	621.2	630.5	640.4	657.7	684.2	723.3	786.3	870.5	987.2
52.5°	558.2	559.6	561.6	570.2	578.1	594.0	613.9	644.4	694.1	764.4	855.3
55°	502.5	501.2	505.9	513.2	520.4	531.7	552.3	576.8	611.9	667.6	742.5
57.5°	445.5	447.5	450.8	454.8	468.1	480.0	495.3	517.8	545.6	589.4	651.7
60°	393.8	393.8	397.8	403.1	411.7	419.7	434.3	454.8	479.3	513.2	565.5
62.5°	343.4	346.1	350.1	352.7	360.7	370.6	381.9	397.8	420.3	447.5	486.6
65°	299.7	298.3	302.3	307.6	313.6	320.2	332.8	346.1	363.3	387.8	420.3
67.5°	254.6	258.6	259.9	262.5	267.2	275.8	281.8	295.7	309.6	331.5	358.7
70°	216.1	218.8	220.8	224.1	228.1	232.0	238.0	249.3	263.2	278.5	297.7
72.5°	181.7	183.6	181.7	185.0	187.0	190.9	198.9	204.2	214.8	228.1	245.3
75°	147.2	148.5	147.8	151.2	151.8	155.8	159.8	164.4	176.4	183.6	195.6
77.5°	115.4	116.7	117.3	118.7	120.0	122.0	124.0	128.6	135.2	141.9	151.2
80°	86.2	86.2	88.2	88.8	89.5	90.8	94.1	95.5	100.1	102.1	109.4
82.5°	59.7	60.3	61.0	61.0	61.7	63.0	63.6	66.3	67.6	70.9	74.3
85°	37.1	37.8	37.8	37.8	39.8	39.1	39.1	40.4	42.4	42.4	43.8
87.5°	18.6	19.2	19.2	19.2	19.9	19.9	19.9	19.9	19.9	21.2	20.6
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°	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4
2.5°	1845.8	1845.1	1842.4	1830.5	1821.2	1809.3	1807.3	1805.3	1788.7	1770.8	1765.5
5°	1910.7	1898.8	1882.2	1862.3	1842.4	1820.6	1808.0	1797.4	1772.2	1744.3	1728.4
7.5°	1974.4	1951.2	1925.3	1894.2	1861.0	1825.9	1803.3	1782.1	1747.6	1711.2	1689.3
10°	2028.7	1997.6	1961.8	1920.7	1874.9	1827.2	1794.0	1760.9	1717.1	1672.7	1643.5
12.5°	2073.8	2034.0	1987.0	1931.3	1889.5	1823.9	1777.5	1733.7	1685.3	1627.6	1595.8
15°	2108.3	2069.2	2005.5	1949.2	1894.2	1806.6	1750.3	1703.9	1638.9	1582.6	1532.2
17.5°	2150.1	2094.4	2031.4	1950.5	1889.5	1789.4	1725.8	1665.4	1595.1	1528.8	1473.2
20°	2168.6	2110.3	2042.7	1952.5	1874.9	1770.8	1686.0	1627.6	1542.8	1466.5	1403.5
22.5°	2171.3	2115.6	2042.0	1946.5	1849.7	1743.7	1646.2	1570.0	1485.1	1404.2	1333.3
25°	2160.0	2107.0	2030.7	1935.9	1821.9	1714.5	1605.8	1517.6	1419.5	1335.9	1263.7
27.5°	2129.5	2086.4	2014.2	1912.7	1793.4	1669.4	1550.7	1454.6	1357.8	1263.0	1194.0
30°	2080.5	2051.9	1989.6	1882.2	1756.9	1620.3	1501.7	1389.6	1284.9	1196.0	1121.8
32.5°	2017.5	2003.5	1951.8	1845.8	1719.8	1566.6	1442.7	1327.3	1213.3	1129.1	1052.8
35°	1937.2	1944.5	1900.8	1804.7	1672.7	1512.3	1373.7	1253.0	1141.7	1052.2	981.9
37.5°	1833.2	1869.0	1841.1	1750.9	1612.4	1457.2	1301.4	1180.1	1063.4	977.2	915.6
40°	1716.5	1779.5	1766.2	1690.6	1547.4	1392.9	1231.8	1101.2	987.2	905.6	846.6
42.5°	1579.2	1670.7	1685.3	1617.0	1483.1	1312.7	1153.6	1027.6	917.6	837.4	781.0
45°	1425.4	1538.8	1587.9	1534.2	1408.2	1235.1	1073.4	949.4	840.7	772.4	725.3
47.5°	1270.9	1407.5	1473.8	1448.0	1320.7	1152.3	993.8	872.5	769.7	710.1	665.6
50°	1118.5	1265.0	1361.8	1344.5	1234.5	1073.4	913.6	794.3	700.1	645.1	607.3
52.5°	984.5	1123.1	1228.5	1237.1	1138.3	983.2	828.7	718.0	637.8	588.1	556.2
55°	852.6	981.2	1096.6	1117.8	1037.6	888.4	750.5	645.7	572.8	531.7	505.9
57.5°	734.6	851.3	966.0	1003.1	938.1	803.5	666.3	574.1	511.2	479.3	456.8
60°	634.5	739.9	838.7	876.5	832.0	709.4	589.4	507.2	454.8	426.3	408.4
62.5°	547.0	628.5	716.0	757.8	728.0	621.2	516.5	443.5	401.1	376.6	362.7
65°	468.1	531.1	600.0	648.4	615.3	535.7	448.2	385.2	349.4	326.9	316.9
67.5°	395.1	447.5	502.5	541.0	524.4	452.2	378.6	329.5	299.7	282.4	273.2
70°	328.8	368.0	412.4	442.2	430.3	374.6	316.2	277.1	251.9	240.0	232.0
72.5°	269.8	295.0	328.8	353.4	340.8	301.7	259.9	228.7	210.2	196.2	190.3
75°	214.1	236.0	259.9	276.5	266.5	237.3	204.2	180.3	167.7	159.1	155.1
77.5°	162.4	179.7	196.2	204.2	199.6	178.3	155.8	137.2	126.6	121.3	116.7
80°	116.7	126.6	137.9	145.2	142.5	128.0	112.0	97.5	92.8	86.2	84.9
82.5°	78.2	86.2	88.8	92.2	90.2	83.5	72.3	63.6	59.7	56.4	55.7
85°	46.4	48.4	51.7	51.7	49.7	45.1	39.1	36.5	32.5	31.8	29.8
87.5°	20.6	20.6	20.6	20.6	20.6	19.2	16.6	15.2	13.9	13.3	12.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4	1791.4
2.5°	1760.9	1754.3	1745.0	1734.4	1725.1	1710.5	1705.9	1705.9	1709.2	1705.2	1701.9
5°	1715.1	1701.9	1688.6	1668.1	1650.8	1627.6	1621.0	1614.4	1613.7	1607.1	1598.5
7.5°	1666.1	1646.2	1619.0	1589.8	1571.3	1546.1	1532.2	1528.2	1515.6	1503.7	1489.7
10°	1609.1	1578.6	1546.1	1518.2	1489.1	1456.6	1440.0	1428.7	1416.1	1401.6	1391.6
12.5°	1540.1	1505.6	1475.8	1443.3	1418.8	1373.0	1367.7	1353.2	1328.0	1306.1	1298.1
15°	1497.7	1437.4	1403.5	1373.7	1336.6	1289.5	1272.3	1256.4	1232.5	1218.6	1207.3
17.5°	1422.8	1368.4	1326.0	1286.2	1250.4	1213.9	1188.1	1174.8	1155.6	1143.7	1132.4
20°	1354.5	1295.5	1251.1	1204.6	1167.5	1134.4	1112.5	1095.9	1086.0	1074.0	1062.8
22.5°	1285.5	1223.9	1181.4	1134.4	1090.6	1070.7	1044.9	1030.9	1017.7	1008.4	996.5
25°	1205.3	1156.2	1103.2	1066.7	1028.3	1007.7	983.2	970.0	959.3	948.7	942.8
27.5°	1133.7	1084.0	1034.9	998.5	966.0	946.1	930.8	918.2	905.0	897.0	892.4
30°	1059.5	1013.7	970.6	935.5	910.3	888.4	879.1	867.2	857.2	853.9	846.6
32.5°	993.2	942.1	907.6	875.8	854.6	839.3	832.7	820.1	818.1	814.8	810.8
35°	926.9	883.1	849.9	822.8	804.9	793.6	785.0	781.7	778.3	775.0	771.7
37.5°	861.2	826.7	795.6	773.7	759.1	750.5	748.5	741.9	741.2	736.6	736.6
40°	802.2	767.1	745.2	728.0	716.0	712.0	706.7	705.4	703.4	702.1	704.8
42.5°	743.2	719.3	700.8	682.9	673.6	670.3	669.0	667.0	665.6	669.6	670.9
45°	688.2	667.6	651.7	639.1	633.8	629.8	629.8	631.8	631.2	633.2	633.2
47.5°	637.1	618.6	605.3	600.7	594.0	592.7	593.4	592.7	596.0	598.7	601.3
50°	588.7	572.2	561.6	556.9	555.6	553.6	556.2	557.6	559.6	562.2	563.5
52.5°	535.0	527.1	520.4	515.8	515.1	515.8	515.1	519.8	521.8	525.7	525.1
55°	489.3	483.3	478.7	473.4	472.7	474.7	476.0	480.0	482.7	486.0	485.3
57.5°	446.2	441.5	436.2	434.9	434.3	434.9	440.9	440.2	444.2	446.9	448.2
60°	399.1	395.8	391.2	391.2	393.2	394.5	396.5	399.8	403.8	403.1	407.7
62.5°	356.0	352.0	350.7	352.7	352.0	355.4	357.4	357.4	362.7	364.6	366.0
65°	312.9	311.6	309.6	309.6	311.6	312.3	315.6	317.6	319.6	323.5	326.9
67.5°	272.5	269.2	269.2	267.8	270.5	272.5	274.5	277.1	278.5	283.1	285.1
70°	230.1	228.7	228.1	229.4	229.4	231.4	234.7	238.0	240.7	241.3	245.3
72.5°	189.0	189.0	189.0	190.9	192.3	194.3	194.9	197.6	201.5	202.2	204.2
75°	151.8	152.5	151.8	152.5	153.2	155.1	156.5	159.1	161.8	162.4	163.8
77.5°	117.3	116.0	114.7	116.7	118.0	122.0	121.3	122.7	125.3	124.0	125.3
80°	82.2	84.2	81.5	85.5	85.5	84.9	86.2	88.2	87.5	88.8	87.5
82.5°	55.7	53.7	53.7	55.7	56.4	54.4	55.7	56.4	57.0	55.7	55.0
85°	30.5	29.8	31.2	29.2	29.8	28.5	28.5	27.2	28.5	27.2	25.9
87.5°	11.3	10.6	11.3	9.3	8.6	8.0	7.3	7.3	6.0	6.0	6.0
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: P243153

CATALOG NUMBER: S122DRP-H1005D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1791.4	1791.4	1791.4	1791.4
2.5°	1706.5	1699.2	1695.9	1698.6
5°	1589.2	1591.2	1579.2	1583.2
7.5°	1487.7	1479.1	1481.8	1477.1
10°	1380.3	1375.7	1368.4	1369.7
12.5°	1308.1	1276.9	1274.9	1269.0
15°	1206.6	1189.4	1185.4	1184.1
17.5°	1125.8	1111.2	1116.5	1112.5
20°	1052.8	1053.5	1044.9	1039.6
22.5°	988.5	987.2	983.9	978.6
25°	934.1	934.1	926.2	924.2
27.5°	884.4	885.8	879.1	879.1
30°	847.3	842.7	842.0	843.3
32.5°	810.2	804.9	805.5	804.9
35°	770.4	771.7	769.7	767.7
37.5°	736.6	736.6	736.6	734.6
40°	703.4	704.8	702.8	704.1
42.5°	670.3	670.9	670.9	668.3
45°	637.1	636.5	635.1	637.8
47.5°	602.7	602.7	602.0	603.3
50°	564.9	566.2	564.2	563.5
52.5°	526.4	527.1	526.4	527.7
55°	487.3	487.3	488.0	489.3
57.5°	446.9	451.5	448.2	450.8
60°	407.1	407.7	408.4	407.1
62.5°	369.3	368.6	369.3	371.3
65°	328.2	329.5	328.8	327.5
67.5°	287.7	286.4	288.4	286.4
70°	244.6	247.3	245.3	248.0
72.5°	205.5	204.9	206.2	202.9
75°	164.4	164.4	165.1	164.4
77.5°	126.0	124.6	124.0	122.0
80°	86.9	86.9	84.2	86.2
82.5°	53.0	53.7	54.4	50.4
85°	25.2	25.2	24.5	23.9
87.5°	5.3	5.3	6.0	6.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243153
 CATALOG NUMBER: S122DRP-H1005D830-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	20.91	22.44	21.28	22.75	23.06	23.75	25.27	24.11	25.59	25.90
	3H	22.26	23.63	22.64	23.96	24.32	24.77	26.14	25.15	26.46	26.83
	4H	22.75	24.03	23.15	24.38	24.76	25.10	26.38	25.50	26.73	27.11
	6H	23.10	24.28	23.51	24.65	25.04	25.29	26.48	25.70	26.84	27.23
	8H	23.21	24.33	23.63	24.72	25.12	25.33	26.46	25.76	26.85	27.25
	12H	23.27	24.35	23.71	24.74	25.17	25.35	26.43	25.78	26.81	27.24
4H	2H	21.79	23.08	22.19	23.42	23.80	23.99	25.27	24.39	25.62	26.00
	3H	23.29	24.36	23.70	24.76	25.16	25.36	26.42	25.77	26.82	27.23
	4H	23.86	24.82	24.29	25.23	25.67	25.88	26.83	26.31	27.25	27.69
	6H	24.30	25.13	24.75	25.57	26.03	26.21	27.04	26.66	27.48	27.94
	8H	24.43	25.21	24.89	25.65	26.12	26.28	27.06	26.75	27.50	27.97
	12H	24.53	25.23	25.01	25.70	26.17	26.32	27.02	26.80	27.49	27.97
8H	4H	24.30	25.07	24.76	25.52	25.99	26.01	26.79	26.47	27.23	27.70
	6H	24.82	25.46	25.32	25.95	26.43	26.45	27.10	26.95	27.59	28.07
	8H	25.01	25.58	25.52	26.09	26.58	26.59	27.16	27.10	27.67	28.16
	12H	25.16	25.67	25.67	26.16	26.73	26.68	27.19	27.19	27.68	28.24
12H	4H	24.35	25.05	24.83	25.53	26.00	26.01	26.70	26.49	27.18	27.65
	6H	24.90	25.47	25.41	25.98	26.47	26.46	27.03	26.97	27.54	28.03
	8H	25.13	25.64	25.64	26.13	26.70	26.64	27.15	27.15	27.64	28.20