

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: P243178

Luminaire Tested: S122DRP-H1005D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243178
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-H1005D940-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

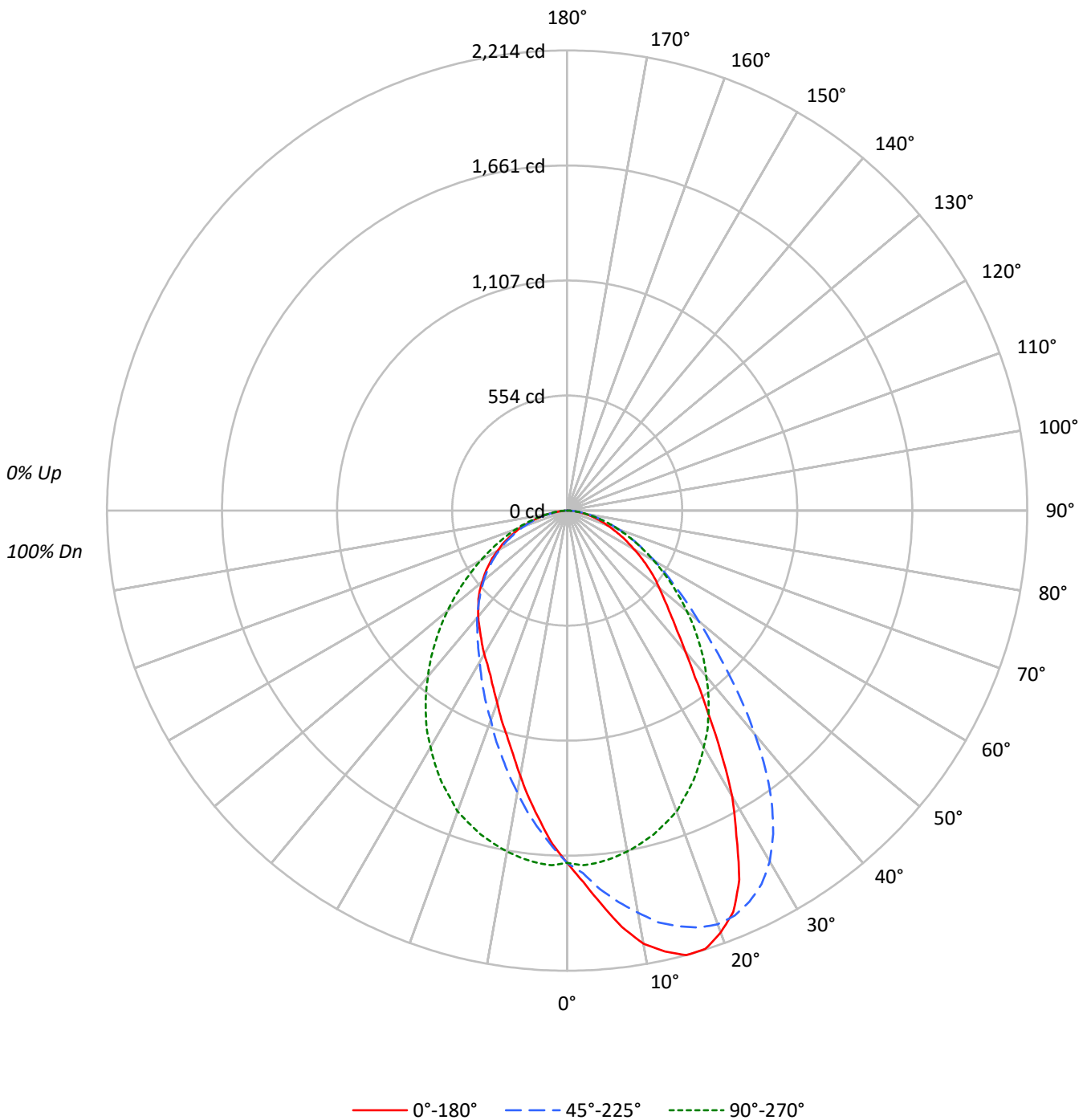
Lumens per Lamp: N/A
Luminaire Lumens: 3760.7 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P243178

CATALOG NUMBER: S122DRP-H1005D940-X4F0-XX-UDD-A-W

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32282	32282	32282	32282	32282
5°	36363	34971	32512	29444	28639
10°	40933	37985	32221	26653	25065
15°	43661	40830	31788	24058	22090
20°	43788	42936	31214	21754	19936
25°	41182	43620	30174	20037	18377
30°	34958	42876	28916	18486	17547
35°	27332	39935	27566	17458	16889
40°	21958	34920	25904	16749	16563
45°	18889	29265	24195	16052	16254
50°	17137	24406	22266	15519	15797
55°	15787	20975	20287	14914	15372
60°	14194	18495	18278	14217	14671
65°	12778	16536	16424	13314	13967
70°	11389	14669	14602	12191	13065
75°	10244	12783	12555	10804	11451
80°	8940	10596	10114	8808	8940
85°	7671	8764	7540	5901	4939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 40466 cd/sqm



TEST NUMBER: P243178

CATALOG NUMBER: S122DRP-H1005D940-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	4.3
10°-20°	464.1	12.3
20°-30°	674.9	17.9
30°-40°	724.0	19.3
40°-50°	648.9	17.3
50°-60°	517.3	13.8
60°-70°	349.9	9.3
70°-80°	178.5	4.7
80°-90°	41.8	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°	1300.4	34.6
0°-40°	2024.4	53.8
0°-60°	3190.5	84.8
0°-90°	3760.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1695	1695	1695	1695	1695	
5°	1902	1829	1700	1540	1498	188
15°	2214	2070	1612	1220	1120	620
25°	1960	2076	1436	953	874	881
35°	1175	1717	1186	751	726	745
45°	701	1086	898	596	603	549
55°	475	632	611	449	463	424
65°	284	367	364	295	310	281
75°	139	174	171	147	156	148
85°	35	40	34	27	23	41
90°	0	0	0	0	0	

TEST NUMBER: P243178

CATALOG NUMBER: S122DRP-H1005D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8
2.5°	1788.9	1794.5	1789.5	1787.6	1783.8	1782.6	1772.6	1764.4	1759.4	1745.6	1746.8
5°	1901.8	1914.3	1907.4	1906.8	1893.0	1884.2	1875.4	1862.9	1844.1	1829.0	1817.1
7.5°	2020.9	2014.7	2012.8	2005.9	1995.9	1983.3	1963.9	1945.7	1921.8	1899.9	1883.6
10°	2116.3	2114.4	2117.5	2100.0	2093.7	2074.3	2057.3	2029.1	1998.4	1963.9	1942.5
12.5°	2172.7	2178.4	2182.8	2175.9	2160.8	2155.2	2126.9	2087.4	2076.8	2029.7	2004.0
15°	2214.1	2216.6	2217.3	2209.7	2202.2	2187.8	2170.8	2145.8	2111.3	2070.5	2051.0
17.5°	2211.6	2211.0	2214.8	2210.4	2206.0	2201.6	2188.4	2169.0	2142.0	2103.7	2071.1
20°	2160.2	2171.5	2180.3	2182.1	2181.5	2184.0	2177.7	2165.2	2145.8	2118.2	2081.2
22.5°	2089.9	2085.5	2104.4	2103.1	2111.3	2130.1	2138.2	2133.2	2125.7	2108.1	2078.6
25°	1959.5	1963.9	1977.0	1990.8	2022.8	2034.1	2058.6	2077.4	2079.9	2075.5	2057.3
27.5°	1763.8	1795.1	1802.0	1820.2	1864.8	1901.8	1951.3	1980.8	2022.8	2026.6	2018.4
30°	1589.4	1588.2	1598.8	1631.4	1672.2	1728.0	1792.0	1867.9	1916.2	1949.4	1961.4
32.5°	1374.9	1379.9	1407.5	1447.7	1489.0	1544.9	1618.9	1711.7	1776.3	1845.3	1884.2
35°	1175.4	1191.1	1217.5	1245.1	1290.2	1366.7	1448.9	1526.1	1625.2	1717.4	1780.1
37.5°	1011.1	1032.4	1052.5	1078.8	1122.7	1181.7	1255.7	1358.0	1456.4	1567.5	1659.7
40°	883.1	891.3	905.1	930.8	960.3	1019.3	1093.9	1170.4	1277.0	1404.4	1525.4
42.5°	782.8	780.9	796.0	812.3	839.2	883.1	948.4	1024.9	1130.9	1243.8	1366.1
45°	701.2	701.9	708.1	725.1	746.4	771.5	821.7	893.8	974.1	1086.4	1216.2
47.5°	634.8	636.6	646.0	658.0	670.5	693.7	727.0	774.0	849.3	943.4	1065.0
50°	578.3	581.4	587.7	596.5	605.9	622.2	647.3	684.3	743.9	823.6	933.9
52.5°	528.1	529.4	531.3	539.4	546.9	562.0	580.8	609.7	656.7	723.2	809.1
55°	475.4	474.2	478.6	485.5	492.4	503.0	522.5	545.7	578.9	631.6	702.5
57.5°	421.5	423.4	426.5	430.3	442.8	454.1	468.5	489.9	516.2	557.6	616.6
60°	372.6	372.6	376.3	381.4	389.5	397.0	410.8	430.3	453.5	485.5	535.0
62.5°	324.9	327.4	331.2	333.7	341.2	350.6	361.3	376.3	397.7	423.4	460.4
65°	283.5	282.3	286.0	291.0	296.7	303.0	314.9	327.4	343.7	366.9	397.7
67.5°	240.9	244.6	245.9	248.4	252.8	260.9	266.6	279.7	292.9	313.6	339.3
70°	204.5	207.0	208.9	212.0	215.8	219.5	225.2	235.8	249.0	263.4	281.6
72.5°	171.9	173.7	171.9	175.0	176.9	180.6	188.2	193.2	203.2	215.8	232.1
75°	139.2	140.5	139.9	143.0	143.6	147.4	151.2	155.6	166.8	173.7	185.0
77.5°	109.1	110.4	111.0	112.3	113.5	115.4	117.3	121.7	128.0	134.2	143.0
80°	81.5	81.5	83.4	84.0	84.7	85.9	89.1	90.3	94.7	96.6	103.5
82.5°	56.5	57.1	57.7	57.7	58.3	59.6	60.2	62.7	64.0	67.1	70.2
85°	35.1	35.8	35.8	35.8	37.6	37.0	37.0	38.3	40.1	40.1	41.4
87.5°	17.6	18.2	18.2	18.2	18.8	18.8	18.8	18.8	18.8	20.1	19.4
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: P243178

CATALOG NUMBER: S122DRP-H1005D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8
2.5°	1746.2	1745.6	1743.1	1731.8	1723.0	1711.7	1709.8	1708.0	1692.3	1675.3	1670.3
5°	1807.7	1796.4	1780.7	1761.9	1743.1	1722.4	1710.5	1700.4	1676.6	1650.2	1635.2
7.5°	1867.9	1845.9	1821.5	1792.0	1760.6	1727.4	1706.1	1686.0	1653.4	1618.9	1598.2
10°	1919.3	1889.8	1856.0	1817.1	1773.8	1728.7	1697.3	1665.9	1624.5	1582.5	1554.9
12.5°	1962.0	1924.3	1879.8	1827.1	1787.6	1725.5	1681.6	1640.2	1594.4	1539.9	1509.7
15°	1994.6	1957.6	1897.4	1844.1	1792.0	1709.2	1655.9	1612.0	1550.5	1497.2	1449.5
17.5°	2034.1	1981.4	1921.8	1845.3	1787.6	1692.9	1632.7	1575.6	1509.1	1446.4	1393.7
20°	2051.7	1996.5	1932.5	1847.2	1773.8	1675.3	1595.1	1539.9	1459.6	1387.4	1327.8
22.5°	2054.2	2001.5	1931.9	1841.6	1750.0	1649.6	1557.4	1485.3	1405.0	1328.5	1261.4
25°	2043.5	1993.3	1921.2	1831.5	1723.6	1622.0	1519.2	1435.7	1342.9	1263.9	1195.5
27.5°	2014.7	1973.9	1905.5	1809.6	1696.7	1579.4	1467.1	1376.1	1284.6	1194.9	1129.6
30°	1968.3	1941.3	1882.3	1780.7	1662.2	1533.0	1420.7	1314.7	1215.6	1131.5	1061.3
32.5°	1908.7	1895.5	1846.6	1746.2	1627.0	1482.1	1364.9	1255.7	1147.8	1068.2	996.0
35°	1832.8	1839.7	1798.3	1707.3	1582.5	1430.7	1299.6	1185.5	1080.1	995.4	928.9
37.5°	1734.3	1768.2	1741.8	1656.5	1525.4	1378.7	1231.3	1116.5	1006.1	924.5	866.2
40°	1623.9	1683.5	1670.9	1599.4	1464.0	1317.8	1165.4	1041.8	933.9	856.8	801.0
42.5°	1494.1	1580.6	1594.4	1529.8	1403.1	1241.9	1091.4	972.2	868.1	792.2	738.9
45°	1348.5	1455.8	1502.2	1451.4	1332.2	1168.5	1015.5	898.2	795.3	730.7	686.2
47.5°	1202.4	1331.6	1394.3	1369.9	1249.4	1090.1	940.2	825.4	728.2	671.8	629.7
50°	1058.1	1196.8	1288.3	1272.0	1167.9	1015.5	864.3	751.4	662.4	610.3	574.5
52.5°	931.4	1062.5	1162.3	1170.4	1077.0	930.2	784.0	679.3	603.4	556.4	526.2
55°	806.6	928.3	1037.4	1057.5	981.6	840.5	710.0	610.9	541.9	503.0	478.6
57.5°	695.0	805.4	913.9	949.0	887.5	760.2	630.4	543.2	483.6	453.5	432.2
60°	600.3	700.0	793.4	829.2	787.2	671.1	557.6	479.8	430.3	403.3	386.4
62.5°	517.5	594.6	677.4	716.9	688.7	587.7	488.6	419.6	379.5	356.3	343.1
65°	442.8	502.4	567.6	613.4	582.1	506.8	424.0	364.4	330.6	309.2	299.8
67.5°	373.8	423.4	475.4	511.8	496.1	427.8	358.1	311.7	283.5	267.2	258.4
70°	311.1	348.1	390.1	418.4	407.1	354.4	299.2	262.2	238.3	227.1	219.5
72.5°	255.3	279.1	311.1	334.3	322.4	285.4	245.9	216.4	198.8	185.7	180.0
75°	202.6	223.3	245.9	261.6	252.1	224.5	193.2	170.6	158.7	150.5	146.8
77.5°	153.7	170.0	185.7	193.2	188.8	168.7	147.4	129.8	119.8	114.8	110.4
80°	110.4	119.8	130.5	137.4	134.9	121.1	106.0	92.2	87.8	81.5	80.3
82.5°	74.0	81.5	84.0	87.2	85.3	79.0	68.4	60.2	56.5	53.3	52.7
85°	43.9	45.8	48.9	48.9	47.0	42.7	37.0	34.5	30.7	30.1	28.2
87.5°	19.4	19.4	19.4	19.4	19.4	18.2	15.7	14.4	13.2	12.5	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



TEST NUMBER: P243178

CATALOG NUMBER: S122DRP-H1005D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8
2.5°	1665.9	1659.7	1650.9	1640.8	1632.1	1618.3	1613.9	1613.9	1617.0	1613.2	1610.1
5°	1622.6	1610.1	1597.6	1578.1	1561.8	1539.9	1533.6	1527.3	1526.7	1520.4	1512.3
7.5°	1576.2	1557.4	1531.7	1504.1	1486.5	1462.7	1449.5	1445.8	1433.9	1422.6	1409.4
10°	1522.3	1493.4	1462.7	1436.4	1408.8	1378.0	1362.3	1351.7	1339.8	1326.0	1316.6
12.5°	1457.1	1424.4	1396.2	1365.5	1342.3	1299.0	1294.0	1280.2	1256.3	1235.6	1228.1
15°	1416.9	1359.8	1327.8	1299.6	1264.5	1220.0	1203.7	1188.6	1166.0	1152.9	1142.2
17.5°	1346.0	1294.6	1254.5	1216.8	1183.0	1148.5	1124.0	1111.5	1093.3	1082.0	1071.3
20°	1281.4	1225.6	1183.6	1139.7	1104.6	1073.2	1052.5	1036.8	1027.4	1016.1	1005.5
22.5°	1216.2	1157.9	1117.7	1073.2	1031.8	1013.0	988.5	975.3	962.8	954.0	942.7
25°	1140.3	1093.9	1043.7	1009.2	972.8	953.4	930.2	917.6	907.6	897.6	891.9
27.5°	1072.6	1025.5	979.1	944.6	913.9	895.1	880.6	868.7	856.2	848.6	844.3
30°	1002.3	959.0	918.3	885.0	861.2	840.5	831.7	820.4	811.0	807.9	801.0
32.5°	939.6	891.3	858.7	828.6	808.5	794.1	787.8	775.9	774.0	770.9	767.1
35°	876.9	835.5	804.1	778.4	761.5	750.8	742.6	739.5	736.4	733.2	730.1
37.5°	814.8	782.2	752.7	732.0	718.2	710.0	708.1	701.9	701.2	696.9	696.9
40°	759.0	725.7	705.0	688.7	677.4	673.6	668.6	667.4	665.5	664.2	666.7
42.5°	703.1	680.5	663.0	646.0	637.3	634.1	632.9	631.0	629.7	633.5	634.8
45°	651.1	631.6	616.6	604.7	599.6	595.9	595.9	597.8	597.1	599.0	599.0
47.5°	602.8	585.2	572.7	568.3	562.0	560.7	561.4	560.7	563.9	566.4	568.9
50°	557.0	541.3	531.3	526.9	525.6	523.7	526.2	527.5	529.4	531.9	533.1
52.5°	506.2	498.6	492.4	488.0	487.4	488.0	487.4	491.7	493.6	497.4	496.8
55°	462.9	457.3	452.9	447.8	447.2	449.1	450.4	454.1	456.6	459.8	459.1
57.5°	422.1	417.7	412.7	411.5	410.8	411.5	417.1	416.5	420.2	422.8	424.0
60°	377.6	374.5	370.1	370.1	371.9	373.2	375.1	378.2	382.0	381.4	385.7
62.5°	336.8	333.1	331.8	333.7	333.1	336.2	338.1	338.1	343.1	345.0	346.2
65°	296.1	294.8	292.9	292.9	294.8	295.4	298.6	300.4	302.3	306.1	309.2
67.5°	257.8	254.7	254.7	253.4	255.9	257.8	259.7	262.2	263.4	267.8	269.7
70°	217.6	216.4	215.8	217.0	217.0	218.9	222.0	225.2	227.7	228.3	232.1
72.5°	178.8	178.8	178.8	180.6	181.9	183.8	184.4	186.9	190.7	191.3	193.2
75°	143.6	144.3	143.6	144.3	144.9	146.8	148.0	150.5	153.0	153.7	154.9
77.5°	111.0	109.8	108.5	110.4	111.6	115.4	114.8	116.0	118.5	117.3	118.5
80°	77.8	79.7	77.1	80.9	80.9	80.3	81.5	83.4	82.8	84.0	82.8
82.5°	52.7	50.8	50.8	52.7	53.3	51.4	52.7	53.3	53.9	52.7	52.1
85°	28.9	28.2	29.5	27.6	28.2	27.0	27.0	25.7	27.0	25.7	24.5
87.5°	10.7	10.0	10.7	8.8	8.2	7.5	6.9	6.9	5.6	5.6	5.6
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: P243178

CATALOG NUMBER: S122DRP-H1005D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1694.8	1694.8	1694.8	1694.8
2.5°	1614.5	1607.6	1604.5	1607.0
5°	1503.5	1505.4	1494.1	1497.8
7.5°	1407.5	1399.4	1401.9	1397.5
10°	1305.9	1301.5	1294.6	1295.9
12.5°	1237.5	1208.0	1206.2	1200.5
15°	1141.6	1125.3	1121.5	1120.2
17.5°	1065.0	1051.2	1056.3	1052.5
20°	996.0	996.7	988.5	983.5
22.5°	935.2	933.9	930.8	925.8
25°	883.8	883.8	876.2	874.4
27.5°	836.7	838.0	831.7	831.7
30°	801.6	797.2	796.6	797.8
32.5°	766.5	761.5	762.1	761.5
35°	728.8	730.1	728.2	726.3
37.5°	696.9	696.9	696.9	695.0
40°	665.5	666.7	664.9	666.1
42.5°	634.1	634.8	634.8	632.2
45°	602.8	602.1	600.9	603.4
47.5°	570.2	570.2	569.5	570.8
50°	534.4	535.7	533.8	533.1
52.5°	498.0	498.6	498.0	499.3
55°	461.0	461.0	461.6	462.9
57.5°	422.8	427.1	424.0	426.5
60°	385.1	385.7	386.4	385.1
62.5°	349.4	348.7	349.4	351.2
65°	310.5	311.7	311.1	309.9
67.5°	272.2	271.0	272.8	271.0
70°	231.4	234.0	232.1	234.6
72.5°	194.4	193.8	195.1	191.9
75°	155.6	155.6	156.2	155.6
77.5°	119.2	117.9	117.3	115.4
80°	82.2	82.2	79.7	81.5
82.5°	50.2	50.8	51.4	47.7
85°	23.8	23.8	23.2	22.6
87.5°	5.0	5.0	5.6	6.3
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243178
 CATALOG NUMBER: S122DRP-H1005D940-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	20.72	22.24	21.08	22.56	22.87	23.56	25.08	23.92	25.39	25.71
	3H	22.07	23.44	22.45	23.77	24.13	24.58	25.94	24.96	26.27	26.63
	4H	22.56	23.84	22.96	24.19	24.57	24.90	26.19	25.30	26.53	26.91
	6H	22.91	24.09	23.32	24.46	24.85	25.10	26.28	25.51	26.65	27.04
	8H	23.01	24.14	23.44	24.53	24.93	25.14	26.27	25.57	26.66	27.06
	12H	23.08	24.16	23.51	24.54	24.97	25.16	26.24	25.59	26.62	27.05
4H	2H	21.60	22.88	22.00	23.23	23.61	23.80	25.08	24.20	25.43	25.81
	3H	23.10	24.16	23.51	24.56	24.96	25.17	26.23	25.58	26.63	27.03
	4H	23.67	24.62	24.10	25.04	25.48	25.68	26.64	26.12	27.06	27.49
	6H	24.10	24.94	24.56	25.38	25.84	26.02	26.85	26.47	27.29	27.75
	8H	24.24	25.02	24.70	25.46	25.93	26.09	26.87	26.55	27.31	27.78
	12H	24.34	25.03	24.82	25.51	25.98	26.13	26.82	26.61	27.30	27.77
8H	4H	24.10	24.88	24.57	25.33	25.79	25.82	26.60	26.28	27.04	27.51
	6H	24.63	25.27	25.12	25.76	26.24	26.26	26.90	26.76	27.40	27.87
	8H	24.81	25.39	25.33	25.90	26.39	26.40	26.97	26.91	27.48	27.97
	12H	24.97	25.48	25.48	25.97	26.53	26.49	26.99	27.00	27.49	28.05
12H	4H	24.16	24.85	24.64	25.33	25.80	25.81	26.51	26.30	26.99	27.46
	6H	24.70	25.28	25.22	25.79	26.28	26.26	26.84	26.78	27.35	27.84
	8H	24.94	25.45	25.45	25.94	26.51	26.44	26.95	26.95	27.44	28.01