

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: P243168

Luminaire Tested: S122DRP-H1005D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243168  
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-H1005D930-X4F0-XX-UDD-A-W  
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

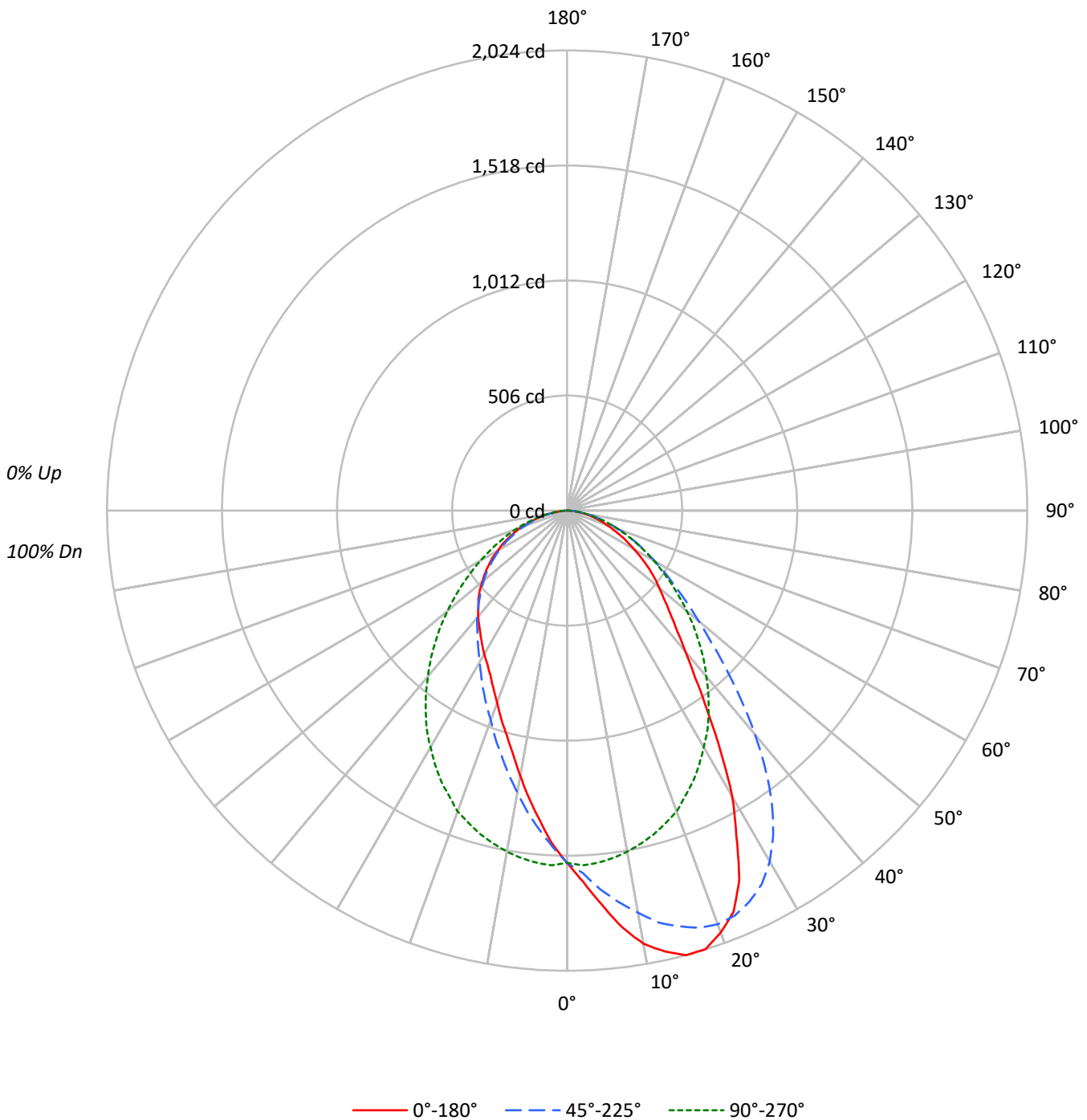
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3438.4 lumens  
Efficiency: N/A  
Efficacy: 91.2 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	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°	29516	29516	29516	29516	29516
5°	33247	31975	29727	26920	26185
10°	37424	34730	29461	24368	22916
15°	39920	37331	29065	21995	20197
20°	40036	39257	28538	19889	18227
25°	37654	39884	27589	18320	16801
30°	31962	39203	26437	16903	16045
35°	24990	36512	25204	15963	15442
40°	20079	31927	23686	15314	15143
45°	17272	26757	22121	14676	14861
50°	15670	22314	20358	14191	14446
55°	14436	19178	18550	13635	14054
60°	12975	16911	16712	12998	13413
65°	11682	15121	15018	12174	12769
70°	10414	13416	13349	11144	11946
75°	9369	11694	11481	9876	10465
80°	8183	9686	9247	8051	8183
85°	7015	8021	6884	5398	4502

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 65°  
 Vertical Angle: 45°  
 Luminance: 36999 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	4.3
10°-20°	424.3	12.3
20°-30°	617.1	17.9
30°-40°	661.9	19.3
40°-50°	593.3	17.3
50°-60°	472.9	13.8
60°-70°	319.9	9.3
70°-80°	163.2	4.7
80°-90°	38.2	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°	1189.0	34.6
0°-40°	1850.9	53.8
0°-60°	2917.1	84.8
0°-90°	3438.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3438.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1550	1550	1550	1550	1550	
5°	1739	1672	1555	1408	1370	172
15°	2024	1893	1474	1115	1024	567
25°	1792	1898	1313	872	799	806
35°	1075	1570	1084	686	664	681
45°	641	993	821	545	552	502
55°	435	578	559	411	423	388
65°	259	336	333	270	283	257
75°	127	159	156	134	142	136
85°	32	37	32	25	21	37
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°	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6
2.5°	1635.6	1640.7	1636.1	1634.4	1631.0	1629.8	1620.7	1613.2	1608.6	1596.0	1597.2
5°	1738.8	1750.3	1744.0	1743.4	1730.8	1722.7	1714.7	1703.2	1686.0	1672.3	1661.4
7.5°	1847.8	1842.0	1840.3	1834.0	1824.8	1813.4	1795.6	1778.9	1757.2	1737.1	1722.2
10°	1934.9	1933.2	1936.1	1920.0	1914.3	1896.5	1881.0	1855.2	1827.1	1795.6	1776.1
12.5°	1986.5	1991.7	1995.7	1989.4	1975.7	1970.5	1944.7	1908.6	1898.8	1855.8	1832.3
15°	2024.4	2026.7	2027.3	2020.4	2013.5	2000.3	1984.8	1961.9	1930.3	1893.1	1875.3
17.5°	2022.1	2021.5	2025.0	2021.0	2016.9	2012.9	2000.9	1983.1	1958.4	1923.5	1893.6
20°	1975.1	1985.4	1993.4	1995.2	1994.6	1996.9	1991.1	1979.7	1961.9	1936.7	1902.8
22.5°	1910.8	1906.8	1924.0	1922.9	1930.3	1947.6	1955.0	1950.4	1943.5	1927.5	1900.5
25°	1791.6	1795.6	1807.6	1820.2	1849.5	1859.8	1882.2	1899.4	1901.7	1897.7	1881.0
27.5°	1612.6	1641.3	1647.6	1664.2	1705.0	1738.8	1784.1	1811.1	1849.5	1852.9	1845.5
30°	1453.2	1452.1	1461.8	1491.6	1528.9	1579.9	1638.4	1707.8	1752.0	1782.4	1793.3
32.5°	1257.1	1261.7	1286.9	1323.6	1361.5	1412.5	1480.2	1565.0	1624.1	1687.2	1722.7
35°	1074.7	1089.0	1113.1	1138.4	1179.7	1249.6	1324.7	1395.3	1485.9	1570.2	1627.5
37.5°	924.5	944.0	962.3	986.4	1026.5	1080.4	1148.1	1241.6	1331.6	1433.1	1517.4
40°	807.5	814.9	827.5	851.0	878.0	931.9	1000.2	1070.1	1167.6	1284.0	1394.7
42.5°	715.7	714.0	727.8	742.7	767.3	807.5	867.1	937.1	1034.0	1137.2	1249.0
45°	641.2	641.7	647.5	662.9	682.4	705.4	751.3	817.2	890.6	993.3	1112.0
47.5°	580.4	582.1	590.7	601.6	613.1	634.3	664.7	707.7	776.5	862.5	973.8
50°	528.8	531.6	537.4	545.4	554.0	568.9	591.8	625.7	680.2	753.0	853.9
52.5°	482.9	484.0	485.7	493.2	500.1	513.8	531.0	557.4	600.4	661.2	739.8
55°	434.7	433.6	437.6	443.9	450.2	459.9	477.7	498.9	529.3	577.5	642.3
57.5°	385.4	387.1	390.0	393.4	404.9	415.2	428.4	447.9	472.0	509.8	563.7
60°	340.6	340.6	344.1	348.7	356.1	363.0	375.6	393.4	414.6	443.9	489.2
62.5°	297.1	299.4	302.8	305.1	312.0	320.6	330.3	344.1	363.6	387.1	420.9
65°	259.2	258.1	261.5	266.1	271.3	277.0	287.9	299.4	314.3	335.5	363.6
67.5°	220.2	223.7	224.8	227.1	231.1	238.6	243.7	255.8	267.8	286.7	310.3
70°	187.0	189.2	191.0	193.8	197.3	200.7	205.9	215.6	227.7	240.9	257.5
72.5°	157.1	158.9	157.1	160.0	161.7	165.2	172.0	176.6	185.8	197.3	212.2
75°	127.3	128.5	127.9	130.8	131.3	134.8	138.2	142.2	152.5	158.9	169.2
77.5°	99.8	100.9	101.5	102.7	103.8	105.5	107.2	111.3	117.0	122.7	130.8
80°	74.6	74.6	76.3	76.8	77.4	78.6	81.4	82.6	86.6	88.3	94.6
82.5°	51.6	52.2	52.8	52.8	53.3	54.5	55.1	57.3	58.5	61.4	64.2
85°	32.1	32.7	32.7	32.7	34.4	33.8	33.8	35.0	36.7	36.7	37.8
87.5°	16.1	16.6	16.6	16.6	17.2	17.2	17.2	17.2	17.2	18.4	17.8
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°	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6
2.5°	1596.6	1596.0	1593.7	1583.4	1575.4	1565.0	1563.3	1561.6	1547.3	1531.8	1527.2
5°	1652.8	1642.5	1628.1	1610.9	1593.7	1574.8	1563.9	1554.7	1532.9	1508.8	1495.1
7.5°	1707.8	1687.8	1665.4	1638.4	1609.8	1579.4	1559.9	1541.5	1511.7	1480.2	1461.2
10°	1754.9	1727.9	1696.9	1661.4	1621.8	1580.5	1551.8	1523.2	1485.3	1446.9	1421.7
12.5°	1793.9	1759.4	1718.7	1670.6	1634.4	1577.7	1537.5	1499.7	1457.8	1407.9	1380.4
15°	1823.7	1789.8	1734.8	1686.0	1638.4	1562.7	1514.0	1473.9	1417.7	1368.9	1325.3
17.5°	1859.8	1811.6	1757.2	1687.2	1634.4	1547.8	1492.8	1440.6	1379.8	1322.5	1274.3
20°	1875.9	1825.4	1766.9	1688.9	1621.8	1531.8	1458.4	1407.9	1334.5	1268.5	1214.1
22.5°	1878.2	1830.0	1766.3	1683.7	1600.0	1508.3	1424.0	1358.0	1284.6	1214.6	1153.3
25°	1868.4	1822.5	1756.6	1674.6	1575.9	1483.0	1389.0	1312.7	1227.8	1155.6	1093.1
27.5°	1842.0	1804.8	1742.2	1654.5	1551.3	1444.0	1341.4	1258.2	1174.5	1092.5	1032.8
30°	1799.6	1774.9	1721.0	1628.1	1519.7	1401.6	1298.9	1202.0	1111.4	1034.6	970.3
32.5°	1745.1	1733.1	1688.3	1596.6	1487.6	1355.1	1247.9	1148.1	1049.5	976.6	910.7
35°	1675.7	1682.0	1644.2	1561.0	1446.9	1308.1	1188.3	1083.9	987.5	910.1	849.3
37.5°	1585.7	1616.7	1592.6	1514.6	1394.7	1260.5	1125.7	1020.8	919.9	845.3	792.0
40°	1484.7	1539.2	1527.8	1462.4	1338.5	1204.9	1065.5	952.6	853.9	783.4	732.3
42.5°	1366.0	1445.2	1457.8	1398.7	1282.9	1135.5	997.9	888.9	793.7	724.3	675.6
45°	1233.0	1331.1	1373.5	1327.0	1218.1	1068.4	928.5	821.2	727.2	668.1	627.4
47.5°	1099.4	1217.5	1274.9	1252.5	1142.4	996.7	859.7	754.7	665.8	614.2	575.8
50°	967.5	1094.2	1177.9	1163.0	1067.8	928.5	790.3	687.0	605.6	558.0	525.3
52.5°	851.6	971.5	1062.7	1070.1	984.7	850.5	716.9	621.1	551.7	508.7	481.2
55°	737.5	848.8	948.5	966.9	897.5	768.5	649.2	558.6	495.5	459.9	437.6
57.5°	635.4	736.4	835.6	867.7	811.5	695.1	576.4	496.6	442.2	414.6	395.1
60°	548.8	640.0	725.5	758.1	719.7	613.6	509.8	438.7	393.4	368.8	353.3
62.5°	473.1	543.7	619.4	655.5	629.7	537.4	446.7	383.7	347.0	325.7	313.7
65°	404.9	459.4	519.0	560.9	532.2	463.4	387.7	333.2	302.2	282.7	274.1
67.5°	341.8	387.1	434.7	468.0	453.6	391.1	327.5	285.0	259.2	244.3	236.3
70°	284.4	318.3	356.7	382.5	372.2	324.0	273.6	239.7	217.9	207.6	200.7
72.5°	233.4	255.2	284.4	305.7	294.8	260.9	224.8	197.9	181.8	169.8	164.6
75°	185.2	204.2	224.8	239.1	230.5	205.3	176.6	156.0	145.1	137.6	134.2
77.5°	140.5	155.4	169.8	176.6	172.6	154.3	134.8	118.7	109.5	104.9	100.9
80°	100.9	109.5	119.3	125.6	123.3	110.7	96.9	84.3	80.3	74.6	73.4
82.5°	67.7	74.6	76.8	79.7	78.0	72.3	62.5	55.1	51.6	48.7	48.2
85°	40.1	41.9	44.7	44.7	43.0	39.0	33.8	31.5	28.1	27.5	25.8
87.5°	17.8	17.8	17.8	17.8	17.8	16.6	14.3	13.2	12.0	11.5	10.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6	1549.6
2.5°	1523.2	1517.4	1509.4	1500.2	1492.2	1479.6	1475.6	1475.6	1478.4	1475.0	1472.1
5°	1483.6	1472.1	1460.7	1442.9	1428.0	1407.9	1402.2	1396.4	1395.9	1390.1	1382.7
7.5°	1441.2	1424.0	1400.4	1375.2	1359.2	1337.4	1325.3	1321.9	1311.0	1300.7	1288.6
10°	1391.8	1365.5	1337.4	1313.3	1288.0	1259.9	1245.6	1235.9	1225.0	1212.3	1203.7
12.5°	1332.2	1302.4	1276.6	1248.5	1227.3	1187.7	1183.1	1170.5	1148.7	1129.8	1122.9
15°	1295.5	1243.3	1214.1	1188.3	1156.1	1115.4	1100.5	1086.8	1066.1	1054.1	1044.3
17.5°	1230.7	1183.7	1147.0	1112.6	1081.6	1050.0	1027.7	1016.2	999.6	989.3	979.5
20°	1171.6	1120.6	1082.2	1042.0	1009.9	981.2	962.3	948.0	939.4	929.0	919.3
22.5°	1112.0	1058.7	1021.9	981.2	943.4	926.2	903.8	891.8	880.3	872.3	861.9
25°	1042.6	1000.2	954.3	922.7	889.5	871.7	850.5	839.0	829.8	820.7	815.5
27.5°	980.7	937.6	895.2	863.7	835.6	818.4	805.2	794.3	782.8	775.9	771.9
30°	916.4	876.9	839.6	809.2	787.4	768.5	760.4	750.1	741.5	738.6	732.3
32.5°	859.1	814.9	785.1	757.6	739.2	726.0	720.3	709.4	707.7	704.8	701.4
35°	801.7	763.9	735.2	711.7	696.2	686.5	679.0	676.1	673.3	670.4	667.5
37.5°	745.0	715.1	688.2	669.3	656.6	649.2	647.5	641.7	641.2	637.1	637.1
40°	693.9	663.5	644.6	629.7	619.4	615.9	611.3	610.2	608.5	607.3	609.6
42.5°	642.9	622.2	606.2	590.7	582.7	579.8	578.6	576.9	575.8	579.2	580.4
45°	595.3	577.5	563.7	552.8	548.3	544.8	544.8	546.5	546.0	547.7	547.7
47.5°	551.1	535.1	523.6	519.6	513.8	512.7	513.3	512.7	515.6	517.9	520.1
50°	509.3	494.9	485.7	481.7	480.6	478.9	481.2	482.3	484.0	486.3	487.5
52.5°	462.8	455.9	450.2	446.2	445.6	446.2	445.6	449.6	451.3	454.8	454.2
55°	423.2	418.1	414.1	409.5	408.9	410.6	411.8	415.2	417.5	420.4	419.8
57.5°	386.0	381.9	377.4	376.2	375.6	376.2	381.4	380.8	384.2	386.5	387.7
60°	345.2	342.4	338.4	338.4	340.1	341.2	342.9	345.8	349.3	348.7	352.7
62.5°	308.0	304.5	303.4	305.1	304.5	307.4	309.1	309.1	313.7	315.4	316.6
65°	270.7	269.5	267.8	267.8	269.5	270.1	273.0	274.7	276.4	279.9	282.7
67.5°	235.7	232.8	232.8	231.7	234.0	235.7	237.4	239.7	240.9	244.9	246.6
70°	199.0	197.9	197.3	198.4	198.4	200.1	203.0	205.9	208.2	208.7	212.2
72.5°	163.4	163.4	163.4	165.2	166.3	168.0	168.6	170.9	174.3	174.9	176.6
75°	131.3	131.9	131.3	131.9	132.5	134.2	135.3	137.6	139.9	140.5	141.7
77.5°	101.5	100.4	99.2	100.9	102.1	105.5	104.9	106.1	108.4	107.2	108.4
80°	71.1	72.8	70.5	74.0	74.0	73.4	74.6	76.3	75.7	76.8	75.7
82.5°	48.2	46.5	46.5	48.2	48.7	47.0	48.2	48.7	49.3	48.2	47.6
85°	26.4	25.8	27.0	25.2	25.8	24.7	24.7	23.5	24.7	23.5	22.4
87.5°	9.7	9.2	9.7	8.0	7.5	6.9	6.3	6.3	5.2	5.2	5.2
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: P243168

CATALOG NUMBER: S122DRP-H1005D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1549.6	1549.6	1549.6	1549.6
2.5°	1476.1	1469.8	1467.0	1469.3
5°	1374.6	1376.4	1366.0	1369.5
7.5°	1286.9	1279.4	1281.7	1277.7
10°	1194.0	1190.0	1183.7	1184.8
12.5°	1131.5	1104.5	1102.8	1097.6
15°	1043.7	1028.8	1025.4	1024.2
17.5°	973.8	961.2	965.7	962.3
20°	910.7	911.3	903.8	899.2
22.5°	855.1	853.9	851.0	846.5
25°	808.0	808.0	801.2	799.4
27.5°	765.0	766.2	760.4	760.4
30°	732.9	728.9	728.3	729.5
32.5°	700.8	696.2	696.8	696.2
35°	666.4	667.5	665.8	664.1
37.5°	637.1	637.1	637.1	635.4
40°	608.5	609.6	607.9	609.0
42.5°	579.8	580.4	580.4	578.1
45°	551.1	550.5	549.4	551.7
47.5°	521.3	521.3	520.7	521.9
50°	488.6	489.8	488.0	487.5
52.5°	455.3	455.9	455.3	456.5
55°	421.5	421.5	422.1	423.2
57.5°	386.5	390.5	387.7	390.0
60°	352.1	352.7	353.3	352.1
62.5°	319.4	318.9	319.4	321.2
65°	283.9	285.0	284.4	283.3
67.5°	248.9	247.7	249.5	247.7
70°	211.6	213.9	212.2	214.5
72.5°	177.8	177.2	178.4	175.5
75°	142.2	142.2	142.8	142.2
77.5°	109.0	107.8	107.2	105.5
80°	75.1	75.1	72.8	74.6
82.5°	45.9	46.5	47.0	43.6
85°	21.8	21.8	21.2	20.6
87.5°	4.6	4.6	5.2	5.7
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243168  
 CATALOG NUMBER: S122DRP-H1005D930-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	20.41	21.93	20.77	22.24	22.56	23.25	24.77	23.61	25.08	25.40
	3H	21.76	23.13	22.14	23.45	23.82	24.27	25.63	24.64	25.96	26.32
	4H	22.25	23.53	22.65	23.88	24.25	24.59	25.87	24.99	26.22	26.60
	6H	22.60	23.78	23.01	24.15	24.54	24.79	25.97	25.20	26.34	26.73
	8H	22.70	23.83	23.13	24.22	24.62	24.83	25.96	25.26	26.35	26.75
	12H	22.77	23.85	23.20	24.23	24.66	24.85	25.93	25.28	26.31	26.74
4H	2H	21.29	22.57	21.69	22.92	23.30	23.49	24.77	23.89	25.12	25.50
	3H	22.79	23.85	23.20	24.25	24.65	24.86	25.92	25.27	26.32	26.72
	4H	23.36	24.31	23.79	24.73	25.17	25.37	26.33	25.80	26.75	27.18
	6H	23.79	24.63	24.25	25.07	25.53	25.70	26.54	26.16	26.98	27.44
	8H	23.93	24.71	24.39	25.15	25.62	25.78	26.56	26.24	27.00	27.47
	12H	24.03	24.72	24.51	25.20	25.67	25.82	26.51	26.30	26.99	27.46
8H	4H	23.79	24.57	24.26	25.01	25.48	25.51	26.29	25.97	26.73	27.20
	6H	24.32	24.96	24.81	25.45	25.93	25.95	26.59	26.45	27.08	27.56
	8H	24.50	25.08	25.02	25.59	26.08	26.09	26.66	26.60	27.17	27.66
	12H	24.66	25.17	25.17	25.66	26.22	26.17	26.68	26.68	27.18	27.74
12H	4H	23.85	24.54	24.33	25.02	25.49	25.50	26.20	25.99	26.68	27.15
	6H	24.39	24.97	24.91	25.48	25.97	25.95	26.53	26.47	27.04	27.53
	8H	24.63	25.14	25.14	25.63	26.20	26.13	26.64	26.64	27.13	27.70