

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: P242288

Luminaire Tested: S122DRP-S1005D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-S1005D927-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

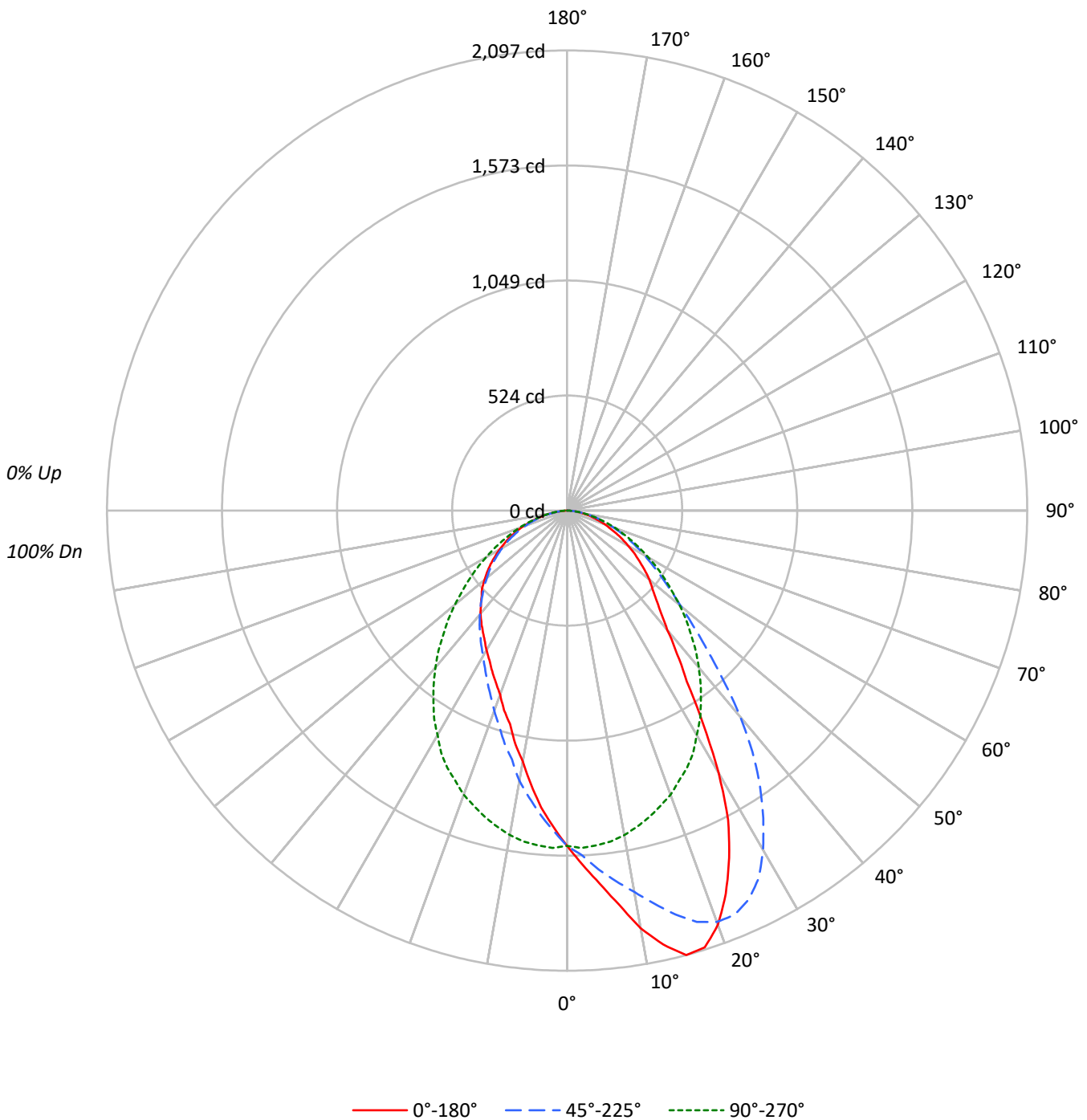
Lumens per Lamp: N/A
Luminaire Lumens: 3370.1 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45					43				
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29097	29097	29097	29097	29097
5°	32621	31398	29289	26604	25954
10°	37381	34134	29047	24198	22461
15°	41354	37570	28515	21684	19844
20°	40725	40439	27942	19684	18089
25°	36721	41113	27183	18077	16979
30°	30346	39269	25969	16826	16168
35°	22116	35631	24697	16054	15591
40°	17664	30554	23197	15386	15270
45°	15435	24435	21461	14708	14834
50°	14508	19937	19780	14144	14544
55°	13376	17332	18072	13629	14154
60°	12255	15432	16259	13017	13554
65°	11169	13945	14634	12223	12967
70°	10136	12458	13049	11283	12096
75°	8986	11017	11275	10112	10715
80°	7733	9335	9335	8304	8633
85°	6928	7562	6928	5770	5136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 37435 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	4.3
10°-20°	423.5	12.6
20°-30°	614.6	18.2
30°-40°	647.9	19.2
40°-50°	573.3	17.0
50°-60°	457.7	13.6
60°-70°	310.9	9.2
70°-80°	159.1	4.7
80°-90°	37.6	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°	1183.7	35.1
0°-40°	1831.6	54.3
0°-60°	2862.5	84.9
0°-90°	3370.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3370.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1528	1528	1528	1528	1528	
5°	1706	1642	1532	1391	1357	170
15°	2097	1905	1446	1100	1006	581
25°	1747	1956	1293	860	808	792
35°	951	1532	1062	690	670	616
45°	573	907	797	546	551	449
55°	403	522	544	410	426	361
65°	248	309	325	271	288	246
75°	122	150	153	137	146	130
85°	32	35	32	26	24	36
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°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1615.7	1616.3	1617.5	1608.1	1606.9	1606.9	1598.7	1591.6	1583.4	1572.3	1573.4
5°	1706.1	1712.6	1714.9	1707.9	1697.3	1696.1	1686.2	1669.7	1654.5	1642.1	1633.3
7.5°	1810.6	1813.0	1808.3	1800.1	1793.0	1779.5	1763.1	1747.2	1723.7	1702.6	1687.3
10°	1932.7	1936.3	1926.3	1912.8	1901.6	1885.2	1858.2	1830.6	1797.1	1764.8	1739.0
12.5°	2025.5	2035.5	2022.0	2023.2	2002.0	1978.0	1944.5	1933.9	1883.4	1835.3	1807.1
15°	2097.1	2096.5	2097.7	2086.6	2072.5	2069.0	2034.9	1997.9	1931.6	1905.2	1859.4
17.5°	2086.6	2094.8	2099.5	2096.0	2093.6	2088.3	2073.7	2046.1	2009.7	1965.0	1910.4
20°	2009.1	2020.8	2022.6	2036.1	2043.7	2053.7	2057.8	2051.3	2030.8	1995.0	1949.2
22.5°	1889.3	1890.5	1896.9	1919.8	1938.6	1967.4	1982.6	2011.4	2006.7	1993.8	1957.4
25°	1747.2	1741.3	1761.9	1772.5	1810.6	1850.6	1879.3	1911.0	1939.2	1956.2	1945.1
27.5°	1589.9	1577.5	1608.7	1636.3	1663.3	1702.0	1745.5	1797.1	1836.5	1889.9	1902.8
30°	1379.7	1385.0	1414.3	1444.3	1491.2	1552.3	1602.8	1660.9	1723.7	1785.4	1828.2
32.5°	1153.1	1177.1	1193.0	1242.9	1282.8	1352.7	1432.5	1508.9	1591.1	1663.3	1735.5
35°	951.1	974.6	1000.4	1033.9	1092.0	1159.5	1231.7	1329.8	1436.6	1532.3	1611.0
37.5°	823.1	819.0	834.9	859.5	909.4	967.5	1053.3	1153.1	1281.1	1387.3	1493.0
40°	710.4	708.0	718.6	740.9	776.7	816.7	889.5	974.6	1091.4	1228.8	1360.9
42.5°	632.9	635.2	639.9	654.0	675.8	706.9	756.8	826.1	930.6	1058.0	1202.4
45°	573.0	577.1	583.6	591.2	605.3	632.3	662.8	714.5	799.0	907.1	1046.8
47.5°	526.0	527.2	534.3	541.3	549.5	566.0	593.0	625.9	690.4	782.6	907.7
50°	489.6	485.5	490.2	495.5	504.3	514.9	531.3	561.9	601.8	672.8	773.2
52.5°	445.0	446.2	450.3	451.5	459.1	469.7	484.4	503.1	538.4	590.0	668.1
55°	402.8	405.7	408.0	411.6	418.6	426.2	438.0	452.1	480.3	521.9	583.0
57.5°	362.8	364.0	365.8	373.4	377.5	384.6	396.3	409.2	428.0	460.3	508.4
60°	321.7	321.7	326.4	329.4	335.2	342.3	351.1	363.4	379.9	405.1	442.1
62.5°	284.2	283.6	284.7	290.0	294.1	300.6	309.4	319.4	334.6	356.4	385.1
65°	247.8	246.6	250.1	251.3	256.0	262.4	269.5	280.6	293.0	309.4	336.4
67.5°	211.4	213.1	215.5	217.8	220.2	227.8	232.5	240.7	251.3	265.4	284.2
70°	182.0	182.0	182.0	183.8	187.3	190.8	195.5	202.0	211.9	223.7	240.1
72.5°	149.1	151.5	153.8	152.1	156.8	158.5	164.4	167.3	176.7	183.2	197.3
75°	122.1	122.1	122.1	125.1	126.8	128.6	132.1	135.6	140.3	149.7	157.3
77.5°	96.3	95.7	96.3	96.9	99.2	101.6	102.7	105.7	110.4	115.1	122.1
80°	70.5	71.6	72.2	73.4	73.4	74.6	75.1	79.3	82.2	85.1	89.2
82.5°	50.5	50.5	50.5	50.5	51.1	51.7	53.4	54.0	54.6	56.9	59.9
85°	31.7	31.1	31.1	32.3	31.7	31.7	32.9	34.1	34.1	34.6	36.4
87.5°	15.3	15.3	15.9	15.3	15.3	15.9	15.9	15.3	15.9	16.4	17.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1577.5	1572.9	1569.9	1559.3	1550.0	1540.6	1537.6	1538.8	1525.9	1513.6	1508.3
5°	1628.6	1616.9	1605.7	1589.9	1571.1	1550.5	1540.0	1531.8	1511.2	1488.9	1476.0
7.5°	1675.0	1659.7	1639.8	1611.6	1585.8	1555.2	1536.5	1520.6	1491.8	1461.9	1443.7
10°	1716.7	1693.8	1666.2	1629.8	1596.3	1557.0	1529.4	1501.8	1466.6	1429.0	1405.5
12.5°	1752.5	1719.6	1692.6	1643.3	1602.2	1550.5	1516.5	1474.8	1437.2	1390.8	1368.0
15°	1813.6	1756.6	1704.9	1652.1	1603.4	1534.7	1498.3	1446.0	1397.3	1342.1	1315.7
17.5°	1858.8	1797.1	1717.3	1653.3	1599.3	1525.9	1473.6	1411.4	1356.2	1295.2	1259.9
20°	1896.3	1823.0	1735.5	1655.6	1587.5	1500.6	1442.5	1378.5	1311.0	1240.0	1201.2
22.5°	1918.7	1840.6	1754.3	1646.8	1564.0	1480.1	1403.2	1331.6	1262.9	1184.8	1143.7
25°	1919.8	1849.4	1757.8	1642.7	1545.3	1449.6	1361.5	1293.4	1210.6	1139.0	1079.7
27.5°	1900.5	1844.7	1756.0	1634.5	1523.5	1413.7	1318.0	1243.5	1156.0	1078.5	1019.2
30°	1857.6	1828.2	1742.5	1620.4	1496.5	1376.2	1268.1	1180.7	1093.8	1015.1	954.0
32.5°	1791.3	1790.7	1717.9	1600.4	1467.8	1328.6	1215.9	1127.2	1028.6	951.7	894.2
35°	1700.3	1728.4	1680.9	1568.7	1430.2	1284.0	1163.1	1062.1	962.3	888.3	833.7
37.5°	1584.6	1649.8	1631.0	1526.5	1382.0	1236.4	1104.9	999.3	903.6	827.2	773.8
40°	1464.2	1553.5	1566.4	1476.6	1330.4	1179.5	1038.0	932.9	840.1	772.0	718.0
42.5°	1335.1	1443.1	1484.2	1416.7	1274.0	1119.6	978.1	868.3	776.7	711.0	664.6
45°	1187.7	1325.7	1389.7	1348.6	1210.0	1052.7	907.1	796.7	713.3	651.1	614.1
47.5°	1054.4	1204.1	1285.8	1266.4	1141.3	985.2	841.3	733.9	651.1	600.6	566.0
50°	911.2	1066.2	1170.1	1174.8	1066.2	911.8	767.3	667.5	593.0	546.6	519.6
52.5°	786.7	932.9	1048.6	1078.5	982.2	835.4	701.0	601.8	538.4	496.7	473.2
55°	681.6	806.7	932.3	978.1	898.9	758.0	631.7	544.2	482.6	453.2	432.1
57.5°	581.8	691.6	810.8	858.9	808.4	684.6	562.4	485.5	433.3	406.9	390.4
60°	506.1	588.3	691.6	752.1	709.8	602.4	499.0	426.8	385.7	362.8	347.6
62.5°	435.6	506.1	589.5	643.5	625.3	525.5	435.6	374.0	339.9	318.8	308.8
65°	371.0	428.6	496.1	547.2	531.9	455.0	379.3	324.7	296.5	279.5	270.7
67.5°	315.9	359.9	408.0	455.0	442.1	385.1	321.1	277.1	255.4	240.1	234.8
70°	264.2	295.9	337.6	373.4	363.4	318.8	270.7	234.3	216.1	203.7	198.4
72.5°	214.9	239.5	268.9	296.5	290.6	255.4	217.2	192.0	179.1	167.9	163.8
75°	169.7	189.6	209.0	228.4	226.6	197.9	174.4	153.2	142.1	133.3	131.5
77.5°	132.7	145.0	159.1	171.4	168.5	149.7	130.3	117.4	108.6	102.7	102.2
80°	95.7	102.2	111.5	119.8	115.7	108.6	93.9	85.1	79.3	73.4	71.0
82.5°	62.8	69.3	74.0	77.5	74.6	68.1	60.5	55.2	52.3	48.7	48.1
85°	36.4	39.9	42.3	43.4	42.3	38.2	34.1	31.7	28.8	27.0	26.4
87.5°	17.6	17.6	17.6	18.8	17.0	17.0	14.7	12.9	12.3	11.7	10.6
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°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1502.4	1498.9	1486.5	1480.1	1469.5	1459.5	1453.1	1456.0	1458.4	1457.2	1455.4
5°	1464.2	1453.1	1436.1	1421.4	1410.8	1391.4	1383.2	1379.1	1375.6	1371.5	1367.4
7.5°	1422.0	1406.1	1382.0	1363.3	1344.5	1319.8	1307.5	1300.4	1292.8	1284.0	1275.8
10°	1376.2	1351.5	1325.7	1296.3	1272.8	1251.1	1231.7	1218.8	1207.1	1195.9	1187.7
12.5°	1328.0	1298.7	1265.2	1222.3	1195.9	1162.5	1163.6	1138.4	1118.4	1112.6	1102.6
15°	1276.4	1236.4	1195.9	1148.4	1127.8	1099.6	1082.0	1064.4	1048.6	1037.4	1034.5
17.5°	1220.0	1166.6	1127.2	1092.0	1058.5	1029.8	1014.5	1000.4	986.9	970.5	969.9
20°	1153.7	1109.0	1065.0	1035.1	1000.4	971.1	951.1	937.0	925.9	917.1	909.4
22.5°	1090.8	1040.9	1001.6	968.1	934.1	911.8	897.1	883.6	874.8	864.8	857.8
25°	1022.7	984.6	940.5	903.6	875.4	860.1	847.2	835.4	829.6	823.1	814.9
27.5°	964.6	922.3	878.9	850.1	824.3	810.8	800.8	792.0	786.7	782.6	777.3
30°	902.4	859.5	827.2	799.0	778.5	765.0	759.1	754.4	748.0	745.6	743.3
32.5°	842.5	804.9	778.5	755.0	735.6	728.0	722.7	718.6	713.9	711.6	706.3
35°	786.7	754.4	727.4	713.9	698.1	690.4	686.3	680.5	675.8	673.4	672.8
37.5°	733.3	703.9	685.7	667.5	659.9	655.8	649.9	645.8	644.1	643.5	642.9
40°	681.6	658.7	642.9	628.8	625.9	618.8	614.1	610.6	610.6	611.2	610.6
42.5°	634.7	614.7	601.2	589.5	585.9	582.4	577.7	578.3	579.5	581.8	579.5
45°	587.1	572.4	562.4	556.6	550.1	546.0	545.4	547.2	547.8	548.4	550.1
47.5°	542.5	533.1	523.7	516.7	513.7	513.1	512.0	514.9	517.8	518.4	521.3
50°	503.7	492.6	484.9	480.8	478.5	477.3	478.5	482.0	484.4	487.3	489.1
52.5°	460.3	453.2	448.5	445.6	445.0	446.2	446.2	450.3	454.4	455.0	455.6
55°	421.0	415.1	413.9	408.6	411.0	410.4	413.3	415.7	419.2	422.7	423.3
57.5°	381.0	375.7	372.2	372.8	373.4	375.7	378.1	382.2	386.3	390.4	390.4
60°	341.1	338.8	337.0	337.0	338.2	341.7	344.6	348.7	351.1	353.4	355.2
62.5°	304.7	302.4	300.6	301.8	305.3	307.1	310.6	312.3	314.7	317.0	317.6
65°	266.0	264.8	266.5	267.7	268.3	271.2	275.4	277.1	279.5	280.6	284.7
67.5°	230.7	230.7	230.1	231.9	235.4	236.0	240.1	244.8	244.8	247.2	250.1
70°	194.9	196.1	197.3	198.4	201.4	202.6	205.5	207.2	209.6	211.4	213.1
72.5°	162.0	162.0	163.2	162.6	165.0	167.9	170.3	172.0	174.4	176.7	178.5
75°	129.7	129.7	130.9	131.5	134.4	137.4	136.8	138.0	140.3	142.7	143.8
77.5°	100.4	99.2	100.4	101.0	102.2	104.5	105.1	106.9	109.8	109.2	110.4
80°	72.2	70.5	72.2	72.8	72.8	75.7	75.7	76.9	78.7	76.9	78.7
82.5°	46.4	45.8	47.0	47.0	48.1	47.6	48.7	48.7	50.5	49.9	50.5
85°	25.8	25.2	25.8	25.2	25.8	26.4	26.4	25.8	25.8	27.0	25.2
87.5°	10.0	9.4	8.8	8.8	8.2	7.6	7.0	7.0	7.0	5.9	5.9
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: P242288

CATALOG NUMBER: S122DRP-S1005D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1527.6	1527.6	1527.6	1527.6
2.5°	1449.6	1448.4	1448.4	1443.1
5°	1359.1	1357.4	1354.4	1357.4
7.5°	1273.4	1265.8	1264.6	1258.8
10°	1177.7	1173.0	1172.4	1161.3
12.5°	1104.9	1092.0	1094.9	1089.7
15°	1018.6	1018.6	1016.3	1006.3
17.5°	957.0	956.4	951.1	954.6
20°	903.0	899.4	892.4	892.4
22.5°	851.9	852.5	844.8	847.8
25°	814.3	809.6	806.1	807.9
27.5°	775.6	773.8	773.2	767.9
30°	742.7	736.8	738.0	735.1
32.5°	705.1	703.9	702.2	699.8
35°	671.6	672.2	669.3	670.5
37.5°	641.7	644.1	642.3	642.3
40°	612.3	612.3	612.3	614.1
42.5°	584.2	583.0	581.8	581.2
45°	551.3	553.1	553.6	550.7
47.5°	522.5	523.1	522.5	526.0
50°	492.0	490.8	492.0	490.8
52.5°	459.7	460.3	459.1	459.1
55°	425.7	426.8	426.2	426.2
57.5°	391.0	391.6	392.8	389.8
60°	354.6	357.5	357.0	355.8
62.5°	321.1	321.7	321.7	321.7
65°	286.5	287.7	285.9	287.7
67.5°	248.9	249.5	250.7	251.3
70°	214.3	213.7	215.5	217.2
72.5°	177.9	179.7	178.5	179.7
75°	142.7	144.4	143.8	145.6
77.5°	109.2	109.8	109.8	110.4
80°	78.7	77.5	76.3	78.7
82.5°	48.7	49.9	48.7	48.1
85°	25.2	24.7	23.5	23.5
87.5°	5.9	5.3	5.3	4.7
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242288
 CATALOG NUMBER: S122DRP-S1005D927-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	20.01	21.52	20.37	21.84	22.15	23.26	24.78	23.63	25.09	25.41
	3H	21.41	22.78	21.79	23.10	23.46	24.27	25.63	24.65	25.96	26.32
	4H	21.92	23.19	22.32	23.54	23.92	24.59	25.86	24.99	26.21	26.59
	6H	22.27	23.45	22.68	23.82	24.21	24.78	25.96	25.20	26.33	26.72
	8H	22.38	23.51	22.81	23.90	24.30	24.83	25.95	25.25	26.34	26.74
	12H	22.46	23.53	22.89	23.91	24.34	24.85	25.92	25.28	26.30	26.73
4H	2H	20.87	22.14	21.27	22.49	22.87	23.47	24.75	23.87	25.10	25.48
	3H	22.42	23.48	22.83	23.88	24.28	24.81	25.87	25.22	26.27	26.67
	4H	23.01	23.97	23.45	24.38	24.82	25.32	26.27	25.75	26.69	27.13
	6H	23.46	24.29	23.92	24.73	25.19	25.65	26.48	26.11	26.92	27.38
	8H	23.60	24.37	24.06	24.82	25.29	25.73	26.50	26.19	26.95	27.41
	12H	23.70	24.39	24.18	24.87	25.34	25.77	26.46	26.25	26.94	27.41
8H	4H	23.45	24.22	23.91	24.67	25.13	25.45	26.22	25.91	26.66	27.13
	6H	23.98	24.62	24.48	25.11	25.59	25.88	26.52	26.38	27.01	27.49
	8H	24.17	24.75	24.69	25.26	25.74	26.02	26.59	26.53	27.10	27.59
	12H	24.33	24.84	24.84	25.33	25.89	26.11	26.61	26.62	27.11	27.67
12H	4H	23.50	24.19	23.98	24.67	25.14	25.44	26.13	25.92	26.61	27.08
	6H	24.06	24.63	24.57	25.14	25.63	25.88	26.46	26.40	26.97	27.46
	8H	24.30	24.81	24.81	25.30	25.86	26.06	26.57	26.57	27.06	27.63