

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: P243157

Luminaire Tested: S122DRP-H865D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243157
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-H865D835-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

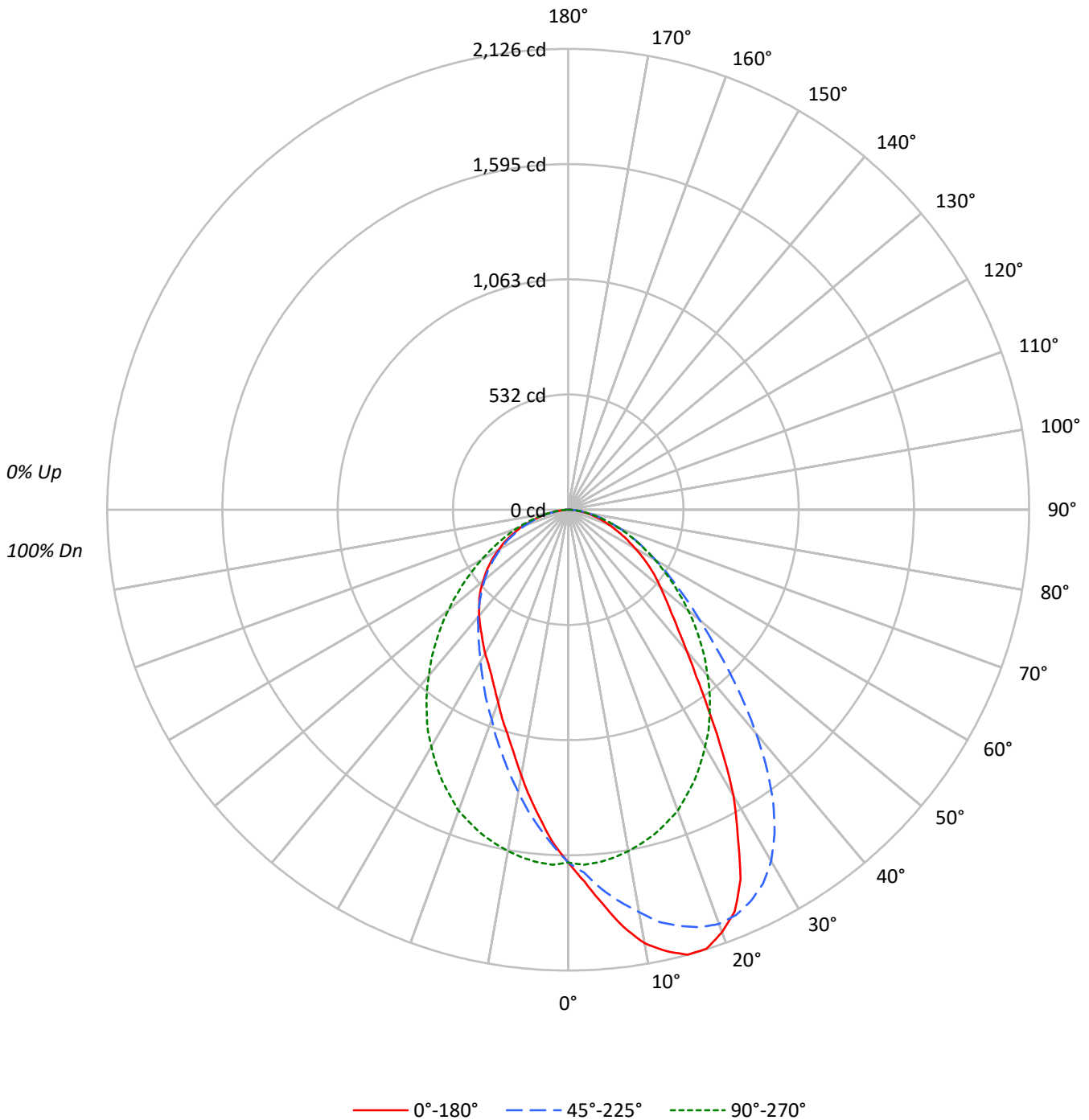
Lumens per Lamp: N/A
Luminaire Lumens: 3610.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	30991	30991	30991	30991	30991
5°	34908	33572	31212	28264	27493
10°	39294	36465	30933	25587	24061
15°	41914	39195	30516	23094	21207
20°	42034	41217	29963	20882	19137
25°	39535	41874	28967	19235	17642
30°	33559	41160	27759	17747	16846
35°	26239	38335	26462	16758	16214
40°	21081	33523	24868	16080	15901
45°	18134	28093	23228	15408	15602
50°	16452	23428	21377	14899	15166
55°	15156	20134	19477	14316	14758
60°	13627	17752	17547	13650	14084
65°	12268	15874	15766	12782	13409
70°	10932	14084	14018	11701	12542
75°	9840	12276	12055	10369	10988
80°	8589	10168	9708	8457	8589
85°	7365	8414	7234	5660	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 38847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	4.3
10°-20°	445.5	12.3
20°-30°	647.9	17.9
30°-40°	695.0	19.3
40°-50°	622.9	17.3
50°-60°	496.6	13.8
60°-70°	335.9	9.3
70°-80°	171.3	4.7
80°-90°	40.1	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°	1248.4	34.6
0°-40°	1943.4	53.8
0°-60°	3062.8	84.8
0°-90°	3610.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3610.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1627	1627	1627	1627	1627	
5°	1826	1756	1632	1478	1438	181
15°	2126	1988	1548	1171	1075	595
25°	1881	1992	1378	915	839	846
35°	1128	1649	1138	721	697	715
45°	673	1043	862	572	579	527
55°	456	606	586	431	444	407
65°	272	352	350	284	298	270
75°	134	167	164	141	149	143
85°	34	38	33	26	22	39
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°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1717.3	1722.7	1717.9	1716.1	1712.5	1711.3	1701.6	1693.8	1689.0	1675.7	1676.9
5°	1825.7	1837.7	1831.1	1830.5	1817.2	1808.8	1800.4	1788.3	1770.3	1755.8	1744.4
7.5°	1940.1	1934.0	1932.2	1925.6	1916.0	1903.9	1885.3	1867.8	1844.9	1823.9	1808.2
10°	2031.6	2029.8	2032.8	2015.9	2009.9	1991.2	1975.0	1947.9	1918.4	1885.3	1864.8
12.5°	2085.8	2091.2	2095.4	2088.8	2074.3	2068.9	2041.8	2003.9	1993.7	1948.5	1923.8
15°	2125.5	2127.9	2128.5	2121.3	2114.1	2100.2	2084.0	2059.9	2026.8	1987.6	1969.0
17.5°	2123.1	2122.5	2126.1	2121.9	2117.7	2113.5	2100.8	2082.2	2056.3	2019.5	1988.2
20°	2073.7	2084.6	2093.0	2094.8	2094.2	2096.6	2090.6	2078.6	2059.9	2033.4	1997.9
22.5°	2006.3	2002.1	2020.1	2018.9	2026.8	2044.8	2052.7	2047.8	2040.6	2023.8	1995.5
25°	1881.1	1885.3	1897.9	1911.2	1941.9	1952.7	1976.2	1994.3	1996.7	1992.4	1975.0
27.5°	1693.2	1723.3	1729.9	1747.4	1790.1	1825.7	1873.2	1901.5	1941.9	1945.5	1937.7
30°	1525.8	1524.6	1534.8	1566.1	1605.3	1658.9	1720.3	1793.1	1839.5	1871.4	1882.9
32.5°	1319.9	1324.7	1351.2	1389.7	1429.5	1483.0	1554.1	1643.2	1705.2	1771.5	1808.8
35°	1128.4	1143.4	1168.7	1195.2	1238.6	1312.0	1390.9	1465.0	1560.1	1648.6	1708.8
37.5°	970.6	991.1	1010.4	1035.7	1077.8	1134.4	1205.5	1303.6	1398.1	1504.7	1593.2
40°	847.8	855.6	868.9	893.6	921.9	978.5	1050.1	1123.6	1225.9	1348.2	1464.4
42.5°	751.5	749.7	764.1	779.8	805.7	847.8	910.4	983.9	1085.6	1194.0	1311.4
45°	673.2	673.8	679.8	696.1	716.5	740.6	788.8	858.0	935.1	1042.9	1167.5
47.5°	609.4	611.2	620.2	631.6	643.7	666.0	697.9	743.0	815.3	905.6	1022.4
50°	555.2	558.2	564.2	572.6	581.7	597.3	621.4	656.9	714.1	790.6	896.6
52.5°	507.0	508.2	510.0	517.8	525.1	539.5	557.6	585.3	630.4	694.3	776.7
55°	456.4	455.2	459.4	466.0	472.7	482.9	501.6	523.9	555.8	606.3	674.4
57.5°	404.6	406.4	409.4	413.1	425.1	435.9	449.8	470.3	495.6	535.3	591.9
60°	357.7	357.7	361.3	366.1	373.9	381.1	394.4	413.1	435.3	466.0	513.6
62.5°	311.9	314.3	317.9	320.3	327.6	336.6	346.8	361.3	381.8	406.4	442.0
65°	272.2	271.0	274.6	279.4	284.8	290.8	302.3	314.3	330.0	352.2	381.8
67.5°	231.2	234.8	236.0	238.4	242.7	250.5	255.9	268.6	281.2	301.1	325.8
70°	196.3	198.7	200.5	203.5	207.1	210.7	216.2	226.4	239.0	252.9	270.4
72.5°	165.0	166.8	165.0	168.0	169.8	173.4	180.6	185.5	195.1	207.1	222.8
75°	133.7	134.9	134.3	137.3	137.9	141.5	145.1	149.3	160.2	166.8	177.6
77.5°	104.8	106.0	106.6	107.8	109.0	110.8	112.6	116.8	122.8	128.9	137.3
80°	78.3	78.3	80.1	80.7	81.3	82.5	85.5	86.7	90.9	92.7	99.4
82.5°	54.2	54.8	55.4	55.4	56.0	57.2	57.8	60.2	61.4	64.4	67.4
85°	33.7	34.3	34.3	34.3	36.1	35.5	35.5	36.7	38.5	38.5	39.7
87.5°	16.9	17.5	17.5	17.5	18.1	18.1	18.1	18.1	18.1	19.3	18.7
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°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1676.3	1675.7	1673.3	1662.5	1654.1	1643.2	1641.4	1639.6	1624.5	1608.3	1603.5
5°	1735.3	1724.5	1709.4	1691.4	1673.3	1653.4	1642.0	1632.4	1609.5	1584.2	1569.8
7.5°	1793.1	1772.1	1748.6	1720.3	1690.2	1658.3	1637.8	1618.5	1587.2	1554.1	1534.2
10°	1842.5	1814.2	1781.7	1744.4	1702.8	1659.5	1629.4	1599.3	1559.5	1519.2	1492.7
12.5°	1883.5	1847.3	1804.6	1754.0	1716.1	1656.5	1614.3	1574.6	1530.6	1478.2	1449.3
15°	1914.8	1879.2	1821.4	1770.3	1720.3	1640.8	1589.6	1547.5	1488.5	1437.3	1391.5
17.5°	1952.7	1902.1	1844.9	1771.5	1716.1	1625.1	1567.3	1512.6	1448.7	1388.5	1337.9
20°	1969.6	1916.6	1855.2	1773.3	1702.8	1608.3	1531.2	1478.2	1401.2	1331.9	1274.7
22.5°	1972.0	1921.4	1854.6	1767.9	1679.9	1583.6	1495.1	1425.8	1348.8	1275.3	1210.9
25°	1961.7	1913.6	1844.3	1758.2	1654.7	1557.1	1458.4	1378.3	1289.2	1213.3	1147.7
27.5°	1934.0	1894.9	1829.3	1737.1	1628.8	1516.2	1408.4	1321.1	1233.2	1147.1	1084.4
30°	1889.5	1863.6	1807.0	1709.4	1595.6	1471.6	1363.8	1262.1	1166.9	1086.2	1018.8
32.5°	1832.3	1819.6	1772.7	1676.3	1561.9	1422.8	1310.2	1205.5	1101.9	1025.4	956.2
35°	1759.4	1766.0	1726.3	1639.0	1519.2	1373.5	1247.6	1138.0	1036.9	955.6	891.8
37.5°	1664.9	1697.4	1672.1	1590.2	1464.4	1323.5	1182.0	1071.8	965.8	887.5	831.5
40°	1558.9	1616.1	1604.1	1535.4	1405.4	1265.1	1118.8	1000.1	896.6	822.5	768.9
42.5°	1434.3	1517.4	1530.6	1468.6	1347.0	1192.2	1047.7	933.3	833.3	760.5	709.3
45°	1294.6	1397.5	1442.1	1393.3	1278.9	1121.8	974.8	862.3	763.5	701.5	658.7
47.5°	1154.3	1278.3	1338.5	1315.1	1199.4	1046.5	902.6	792.4	699.1	644.9	604.5
50°	1015.8	1148.9	1236.8	1221.1	1121.2	974.8	829.7	721.4	635.8	585.9	551.6
52.5°	894.2	1020.0	1115.7	1123.6	1033.9	893.0	752.7	652.1	579.2	534.1	505.2
55°	774.3	891.2	995.9	1015.2	942.3	806.9	681.6	586.5	520.2	482.9	459.4
57.5°	667.2	773.1	877.3	911.0	852.0	729.8	605.1	521.4	464.2	435.3	414.9
60°	576.2	672.0	761.7	796.0	755.7	644.3	535.3	460.6	413.1	387.2	370.9
62.5°	496.8	570.8	650.3	688.2	661.1	564.2	469.1	402.8	364.3	342.0	329.4
65°	425.1	482.3	544.9	588.9	558.8	486.5	407.0	349.8	317.3	296.9	287.8
67.5°	358.9	406.4	456.4	491.3	476.3	410.7	343.8	299.3	272.2	256.5	248.1
70°	298.7	334.2	374.5	401.6	390.8	340.2	287.2	251.7	228.8	218.0	210.7
72.5°	245.1	267.9	298.7	320.9	309.5	274.0	236.0	207.7	190.9	178.2	172.8
75°	194.5	214.4	236.0	251.1	242.1	215.6	185.5	163.8	152.3	144.5	140.9
77.5°	147.5	163.2	178.2	185.5	181.2	162.0	141.5	124.6	115.0	110.2	106.0
80°	106.0	115.0	125.2	131.9	129.5	116.2	101.8	88.5	84.3	78.3	77.1
82.5°	71.1	78.3	80.7	83.7	81.9	75.9	65.6	57.8	54.2	51.2	50.6
85°	42.1	44.0	47.0	47.0	45.2	40.9	35.5	33.1	29.5	28.9	27.1
87.5°	18.7	18.7	18.7	18.7	18.7	17.5	15.1	13.8	12.6	12.0	11.4
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°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1599.3	1593.2	1584.8	1575.2	1566.7	1553.5	1549.3	1549.3	1552.3	1548.7	1545.7
5°	1557.7	1545.7	1533.6	1515.0	1499.3	1478.2	1472.2	1466.2	1465.6	1459.6	1451.7
7.5°	1513.2	1495.1	1470.4	1443.9	1427.0	1404.2	1391.5	1387.9	1376.5	1365.6	1353.0
10°	1461.4	1433.7	1404.2	1378.9	1352.4	1322.9	1307.8	1297.6	1286.2	1272.9	1263.9
12.5°	1398.7	1367.4	1340.3	1310.8	1288.6	1247.0	1242.2	1228.9	1206.1	1186.2	1179.0
15°	1360.2	1305.4	1274.7	1247.6	1213.9	1171.1	1155.5	1141.0	1119.4	1106.7	1096.5
17.5°	1292.2	1242.8	1204.3	1168.1	1135.6	1102.5	1079.0	1067.0	1049.5	1038.7	1028.4
20°	1230.2	1176.6	1136.2	1094.1	1060.4	1030.2	1010.4	995.3	986.3	975.5	965.2
22.5°	1167.5	1111.5	1073.0	1030.2	990.5	972.4	949.0	936.3	924.3	915.8	905.0
25°	1094.7	1050.1	1001.9	968.8	933.9	915.2	893.0	880.9	871.3	861.6	856.2
27.5°	1029.6	984.5	939.9	906.8	877.3	859.2	845.4	834.0	821.9	814.7	810.5
30°	962.2	920.7	881.5	849.6	826.7	806.9	798.4	787.6	778.6	775.5	768.9
32.5°	902.0	855.6	824.3	795.4	776.1	762.3	756.3	744.8	743.0	740.0	736.4
35°	841.8	802.0	771.9	747.2	731.0	720.7	712.9	709.9	706.9	703.9	700.9
37.5°	782.2	750.9	722.6	702.7	689.4	681.6	679.8	673.8	673.2	669.0	669.0
40°	728.6	696.7	676.8	661.1	650.3	646.7	641.9	640.7	638.9	637.7	640.1
42.5°	675.0	653.3	636.5	620.2	611.8	608.8	607.5	605.7	604.5	608.2	609.4
45°	625.0	606.3	591.9	580.5	575.6	572.0	572.0	573.8	573.2	575.0	575.0
47.5°	578.6	561.8	549.7	545.5	539.5	538.3	538.9	538.3	541.3	543.7	546.1
50°	534.7	519.6	510.0	505.8	504.6	502.8	505.2	506.4	508.2	510.6	511.8
52.5°	485.9	478.7	472.7	468.5	467.9	468.5	467.9	472.1	473.9	477.5	476.9
55°	444.4	439.0	434.7	429.9	429.3	431.1	432.3	435.9	438.4	441.4	440.8
57.5°	405.2	401.0	396.2	395.0	394.4	395.0	400.4	399.8	403.4	405.8	407.0
60°	362.5	359.5	355.3	355.3	357.1	358.3	360.1	363.1	366.7	366.1	370.3
62.5°	323.3	319.7	318.5	320.3	319.7	322.7	324.5	324.5	329.4	331.2	332.4
65°	284.2	283.0	281.2	281.2	283.0	283.6	286.6	288.4	290.2	293.8	296.9
67.5°	247.5	244.5	244.5	243.3	245.7	247.5	249.3	251.7	252.9	257.1	258.9
70°	208.9	207.7	207.1	208.3	208.3	210.1	213.2	216.2	218.6	219.2	222.8
72.5°	171.6	171.6	171.6	173.4	174.6	176.4	177.0	179.4	183.0	183.6	185.5
75°	137.9	138.5	137.9	138.5	139.1	140.9	142.1	144.5	146.9	147.5	148.7
77.5°	106.6	105.4	104.2	106.0	107.2	110.8	110.2	111.4	113.8	112.6	113.8
80°	74.7	76.5	74.1	77.7	77.7	77.1	78.3	80.1	79.5	80.7	79.5
82.5°	50.6	48.8	48.8	50.6	51.2	49.4	50.6	51.2	51.8	50.6	50.0
85°	27.7	27.1	28.3	26.5	27.1	25.9	25.9	24.7	25.9	24.7	23.5
87.5°	10.2	9.6	10.2	8.4	7.8	7.2	6.6	6.6	5.4	5.4	5.4
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: P243157

CATALOG NUMBER: S122DRP-H865D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1627.0	1627.0	1627.0	1627.0
2.5°	1549.9	1543.3	1540.2	1542.7
5°	1443.3	1445.1	1434.3	1437.9
7.5°	1351.2	1343.4	1345.8	1341.5
10°	1253.6	1249.4	1242.8	1244.0
12.5°	1188.0	1159.7	1157.9	1152.5
15°	1095.9	1080.2	1076.6	1075.4
17.5°	1022.4	1009.2	1014.0	1010.4
20°	956.2	956.8	949.0	944.1
22.5°	897.8	896.6	893.6	888.7
25°	848.4	848.4	841.2	839.4
27.5°	803.2	804.4	798.4	798.4
30°	769.5	765.3	764.7	765.9
32.5°	735.8	731.0	731.6	731.0
35°	699.7	700.9	699.1	697.3
37.5°	669.0	669.0	669.0	667.2
40°	638.9	640.1	638.3	639.5
42.5°	608.8	609.4	609.4	606.9
45°	578.6	578.0	576.8	579.2
47.5°	547.3	547.3	546.7	547.9
50°	513.0	514.2	512.4	511.8
52.5°	478.1	478.7	478.1	479.3
55°	442.6	442.6	443.2	444.4
57.5°	405.8	410.1	407.0	409.4
60°	369.7	370.3	370.9	369.7
62.5°	335.4	334.8	335.4	337.2
65°	298.1	299.3	298.7	297.5
67.5°	261.3	260.1	261.9	260.1
70°	222.2	224.6	222.8	225.2
72.5°	186.7	186.1	187.3	184.3
75°	149.3	149.3	149.9	149.3
77.5°	114.4	113.2	112.6	110.8
80°	78.9	78.9	76.5	78.3
82.5°	48.2	48.8	49.4	45.8
85°	22.9	22.9	22.3	21.7
87.5°	4.8	4.8	5.4	6.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243157
 CATALOG NUMBER: S122DRP-H865D835-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	20.58	22.10	20.94	22.41	22.73	23.42	24.94	23.78	25.25	25.57
	3H	21.93	23.30	22.31	23.62	23.99	24.44	25.80	24.81	26.13	26.49
	4H	22.41	23.70	22.81	24.05	24.42	24.76	26.04	25.16	26.39	26.77
	6H	22.77	23.95	23.18	24.32	24.71	24.96	26.14	25.37	26.51	26.90
	8H	22.87	24.00	23.30	24.39	24.79	25.00	26.13	25.43	26.52	26.92
	12H	22.94	24.02	23.37	24.40	24.83	25.02	26.10	25.45	26.48	26.91
4H	2H	21.46	22.74	21.86	23.09	23.47	23.66	24.94	24.06	25.29	25.67
	3H	22.96	24.02	23.37	24.42	24.82	25.03	26.09	25.44	26.49	26.89
	4H	23.52	24.48	23.96	24.90	25.34	25.54	26.50	25.97	26.91	27.35
	6H	23.96	24.79	24.42	25.24	25.70	25.87	26.71	26.33	27.15	27.61
	8H	24.10	24.88	24.56	25.32	25.79	25.95	26.73	26.41	27.17	27.64
	12H	24.20	24.89	24.68	25.37	25.84	25.99	26.68	26.47	27.16	27.63
8H	4H	23.96	24.74	24.42	25.18	25.65	25.68	26.46	26.14	26.90	27.37
	6H	24.48	25.13	24.98	25.62	26.10	26.12	26.76	26.62	27.25	27.73
	8H	24.67	25.25	25.18	25.76	26.24	26.25	26.83	26.77	27.34	27.83
	12H	24.83	25.33	25.34	25.83	26.39	26.34	26.85	26.85	27.34	27.91
12H	4H	24.02	24.71	24.50	25.19	25.66	25.67	26.37	26.15	26.85	27.32
	6H	24.56	25.14	25.08	25.65	26.14	26.12	26.70	26.64	27.21	27.70
	8H	24.80	25.31	25.31	25.80	26.36	26.30	26.81	26.81	27.30	27.87