

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: P243173

Luminaire Tested: S122DRP-H1005D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243173
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-H1005D935-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

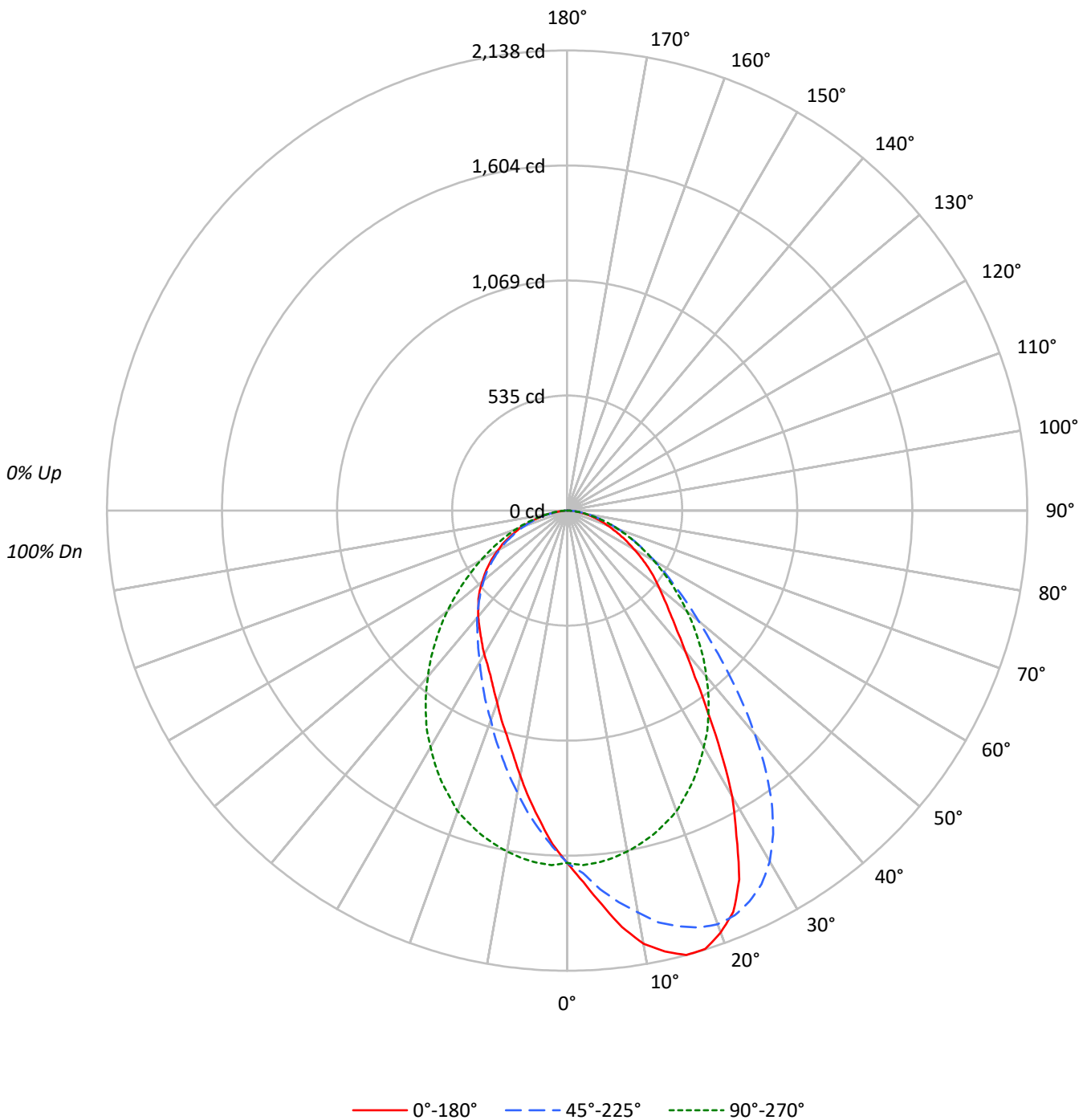
Lumens per Lamp: N/A
Luminaire Lumens: 3631.2 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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°	31170	31170	31170	31170	31170
5°	35111	33767	31394	28428	27652
10°	39523	36675	31113	25736	24200
15°	42159	39424	30694	23228	21331
20°	42279	41457	30138	21004	19249
25°	39764	42118	29136	19348	17742
30°	33755	41400	27920	17848	16944
35°	26392	38558	26615	16856	16307
40°	21202	33717	25014	16172	15993
45°	18239	28257	23363	15497	15694
50°	16547	23564	21499	14985	15255
55°	15246	20254	19590	14399	14844
60°	13703	17859	17650	13726	14168
65°	12336	15969	15860	12859	13485
70°	10994	14168	14101	11773	12614
75°	9891	12349	12121	10428	11054
80°	8633	10234	9763	8501	8633
85°	7409	8480	7278	5682	4764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 39073 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	4.3
10°-20°	448.1	12.3
20°-30°	651.6	17.9
30°-40°	699.0	19.3
40°-50°	626.5	17.3
50°-60°	499.4	13.8
60°-70°	337.8	9.3
70°-80°	172.3	4.7
80°-90°	40.4	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°	1255.7	34.6
0°-40°	1954.7	53.8
0°-60°	3080.6	84.8
0°-90°	3631.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3631.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1636	1636	1636	1636	1636	
5°	1836	1766	1642	1487	1446	182
15°	2138	1999	1556	1178	1082	599
25°	1892	2004	1386	921	844	851
35°	1135	1658	1145	725	701	719
45°	677	1049	867	575	583	530
55°	459	610	590	434	447	410
65°	274	354	352	285	299	272
75°	134	168	165	142	150	143
85°	34	39	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°	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1727.3	1732.7	1727.9	1726.0	1722.4	1721.2	1711.5	1703.6	1698.8	1685.5	1686.7
5°	1836.3	1848.4	1841.7	1841.1	1827.8	1819.3	1810.8	1798.7	1780.6	1766.0	1754.5
7.5°	1951.3	1945.3	1943.5	1936.8	1927.1	1915.0	1896.2	1878.7	1855.6	1834.5	1818.7
10°	2043.4	2041.6	2044.6	2027.6	2021.6	2002.8	1986.5	1959.2	1929.5	1896.2	1875.6
12.5°	2097.9	2103.4	2107.6	2100.9	2086.4	2080.9	2053.7	2015.5	2005.2	1959.8	1935.0
15°	2137.9	2140.3	2140.9	2133.6	2126.4	2112.4	2096.1	2071.9	2038.5	1999.2	1980.4
17.5°	2135.5	2134.8	2138.5	2134.2	2130.0	2125.8	2113.0	2094.3	2068.2	2031.3	1999.8
20°	2085.8	2096.7	2105.2	2107.0	2106.4	2108.8	2102.7	2090.6	2071.9	2045.2	2009.5
22.5°	2018.0	2013.7	2031.9	2030.7	2038.5	2056.7	2064.6	2059.7	2052.5	2035.5	2007.1
25°	1892.0	1896.2	1908.9	1922.3	1953.2	1964.1	1987.7	2005.8	2008.3	2004.0	1986.5
27.5°	1703.0	1733.3	1740.0	1757.5	1800.5	1836.3	1884.1	1912.6	1953.2	1956.8	1948.9
30°	1534.7	1533.5	1543.8	1575.2	1614.6	1668.5	1730.3	1803.6	1850.2	1882.3	1893.8
32.5°	1327.5	1332.4	1359.0	1397.8	1437.8	1491.7	1563.1	1652.8	1715.1	1781.8	1819.3
35°	1135.0	1150.1	1175.5	1202.2	1245.8	1319.7	1399.0	1473.5	1569.2	1658.2	1718.8
37.5°	976.3	996.9	1016.2	1041.7	1084.1	1141.0	1212.5	1311.2	1406.3	1513.5	1602.5
40°	852.7	860.6	873.9	898.8	927.2	984.1	1056.2	1130.1	1233.1	1356.0	1472.9
42.5°	755.8	754.0	768.5	784.3	810.3	852.7	915.7	989.6	1092.0	1201.0	1319.1
45°	677.1	677.7	683.8	700.1	720.7	744.9	793.4	863.0	940.5	1049.0	1174.3
47.5°	612.9	614.7	623.8	635.3	647.4	669.8	701.9	747.3	820.0	910.9	1028.4
50°	558.4	561.4	567.5	576.0	585.0	600.8	625.0	660.7	718.3	795.2	901.8
52.5°	509.9	511.2	513.0	520.8	528.1	542.6	560.8	588.7	634.1	698.3	781.3
55°	459.1	457.9	462.1	468.8	475.4	485.7	504.5	526.9	559.0	609.9	678.3
57.5°	407.0	408.8	411.8	415.5	427.6	438.5	452.4	473.0	498.4	538.4	595.3
60°	359.7	359.7	363.4	368.2	376.1	383.4	396.7	415.5	437.9	468.8	516.6
62.5°	313.7	316.1	319.8	322.2	329.5	338.5	348.8	363.4	384.0	408.8	444.5
65°	273.7	272.5	276.2	281.0	286.5	292.5	304.0	316.1	331.9	354.3	384.0
67.5°	232.6	236.2	237.4	239.8	244.1	251.9	257.4	270.1	282.8	302.8	327.6
70°	197.4	199.9	201.7	204.7	208.3	212.0	217.4	227.7	240.4	254.4	271.9
72.5°	165.9	167.8	165.9	169.0	170.8	174.4	181.7	186.5	196.2	208.3	224.1
75°	134.4	135.7	135.1	138.1	138.7	142.3	146.0	150.2	161.1	167.8	178.7
77.5°	105.4	106.6	107.2	108.4	109.6	111.4	113.3	117.5	123.5	129.6	138.1
80°	78.7	78.7	80.5	81.2	81.8	83.0	86.0	87.2	91.5	93.3	99.9
82.5°	54.5	55.1	55.7	55.7	56.3	57.5	58.1	60.6	61.8	64.8	67.8
85°	33.9	34.5	34.5	34.5	36.3	35.7	35.7	36.9	38.8	38.8	40.0
87.5°	17.0	17.6	17.6	17.6	18.2	18.2	18.2	18.2	18.2	19.4	18.8
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°	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1686.1	1685.5	1683.0	1672.1	1663.7	1652.8	1650.9	1649.1	1634.0	1617.6	1612.8
5°	1745.4	1734.5	1719.4	1701.2	1683.0	1663.1	1651.6	1641.9	1618.8	1593.4	1578.9
7.5°	1803.6	1782.4	1758.7	1730.3	1700.0	1667.9	1647.3	1627.9	1596.4	1563.1	1543.1
10°	1853.2	1824.8	1792.1	1754.5	1712.7	1669.1	1638.8	1608.6	1568.6	1528.0	1501.4
12.5°	1894.4	1858.1	1815.1	1764.2	1726.0	1666.1	1623.7	1583.7	1539.5	1486.8	1457.8
15°	1925.9	1890.2	1832.0	1780.6	1730.3	1650.3	1598.9	1556.5	1497.1	1445.6	1399.6
17.5°	1964.1	1913.2	1855.6	1781.8	1726.0	1634.6	1576.5	1521.3	1457.1	1396.6	1345.7
20°	1981.0	1927.7	1865.9	1783.6	1712.7	1617.6	1540.1	1486.8	1409.3	1339.7	1282.1
22.5°	1983.4	1932.6	1865.3	1778.1	1689.7	1592.8	1503.8	1434.1	1356.6	1282.7	1217.9
25°	1973.1	1924.7	1855.0	1768.4	1664.3	1566.2	1466.8	1386.3	1296.7	1220.3	1154.3
27.5°	1945.3	1905.9	1839.9	1747.2	1638.2	1525.0	1416.6	1328.8	1240.3	1153.7	1090.7
30°	1900.5	1874.4	1817.5	1719.4	1604.9	1480.2	1371.8	1269.4	1173.7	1092.6	1024.7
32.5°	1842.9	1830.2	1783.0	1686.1	1571.0	1431.1	1317.9	1212.5	1108.3	1031.4	961.7
35°	1769.7	1776.3	1736.3	1648.5	1528.0	1381.4	1254.9	1144.6	1042.9	961.1	896.9
37.5°	1674.6	1707.3	1681.8	1599.5	1472.9	1331.2	1188.9	1078.0	971.4	892.7	836.4
40°	1568.0	1625.5	1613.4	1544.4	1413.5	1272.4	1125.3	1006.0	901.8	827.3	773.4
42.5°	1442.6	1526.2	1539.5	1477.1	1354.8	1199.1	1053.8	938.7	838.2	764.9	713.4
45°	1302.1	1405.7	1450.5	1401.4	1286.4	1128.3	980.5	867.3	767.9	705.6	662.6
47.5°	1161.0	1285.8	1346.3	1322.7	1206.4	1052.6	907.8	797.0	703.1	648.6	608.1
50°	1021.7	1155.5	1244.0	1228.2	1127.7	980.5	834.6	725.5	639.5	589.3	554.8
52.5°	899.4	1025.9	1122.2	1130.1	1039.9	898.1	757.0	655.9	582.6	537.2	508.1
55°	778.8	896.3	1001.7	1021.1	947.8	811.5	685.6	589.9	523.3	485.7	462.1
57.5°	671.0	777.6	882.4	916.3	857.0	734.0	608.7	524.5	466.9	437.9	417.3
60°	579.6	675.9	766.1	800.6	760.1	648.0	538.4	463.3	415.5	389.4	373.1
62.5°	499.6	574.1	654.1	692.2	665.0	567.5	471.8	405.2	366.4	344.0	331.3
65°	427.6	485.1	548.1	592.3	562.0	489.3	409.4	351.9	319.2	298.6	289.5
67.5°	361.0	408.8	459.1	494.2	479.1	413.0	345.8	301.0	273.7	258.0	249.5
70°	300.4	336.1	376.7	404.0	393.1	342.2	288.9	253.2	230.1	219.2	212.0
72.5°	246.5	269.5	300.4	322.8	311.3	275.6	237.4	208.9	192.0	179.3	173.8
75°	195.6	215.6	237.4	252.5	243.5	216.8	186.5	164.7	153.2	145.4	141.7
77.5°	148.4	164.1	179.3	186.5	182.3	162.9	142.3	125.4	115.7	110.8	106.6
80°	106.6	115.7	126.0	132.6	130.2	116.9	102.4	89.0	84.8	78.7	77.5
82.5°	71.5	78.7	81.2	84.2	82.4	76.3	66.0	58.1	54.5	51.5	50.9
85°	42.4	44.2	47.2	47.2	45.4	41.2	35.7	33.3	29.7	29.1	27.3
87.5°	18.8	18.8	18.8	18.8	18.8	17.6	15.1	13.9	12.7	12.1	11.5
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°	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1608.6	1602.5	1594.0	1584.3	1575.8	1562.5	1558.3	1558.3	1561.3	1557.7	1554.7
5°	1566.8	1554.7	1542.5	1523.8	1508.0	1486.8	1480.8	1474.7	1474.1	1468.0	1460.2
7.5°	1521.9	1503.8	1478.9	1452.3	1435.3	1412.3	1399.6	1396.0	1384.5	1373.6	1360.9
10°	1469.9	1442.0	1412.3	1386.9	1360.2	1330.6	1315.4	1305.1	1293.6	1280.3	1271.2
12.5°	1406.9	1375.4	1348.1	1318.5	1296.0	1254.3	1249.4	1236.1	1213.1	1193.1	1185.8
15°	1368.1	1313.0	1282.1	1254.9	1220.9	1177.9	1162.2	1147.7	1125.9	1113.1	1102.9
17.5°	1299.7	1250.0	1211.3	1174.9	1142.2	1108.9	1085.3	1073.2	1055.6	1044.7	1034.4
20°	1237.3	1183.4	1142.8	1100.4	1066.5	1036.2	1016.2	1001.1	992.0	981.1	970.8
22.5°	1174.3	1118.0	1079.2	1036.2	996.3	978.1	954.5	941.8	929.6	921.2	910.3
25°	1101.0	1056.2	1007.8	974.5	939.3	920.6	898.1	886.0	876.3	866.7	861.2
27.5°	1035.6	990.2	945.4	912.1	882.4	864.2	850.3	838.8	826.7	819.4	815.2
30°	967.8	926.0	886.6	854.5	831.5	811.5	803.1	792.2	783.1	780.1	773.4
32.5°	907.2	860.6	829.1	800.0	780.7	766.7	760.7	749.2	747.3	744.3	740.7
35°	846.7	806.7	776.4	751.6	735.2	724.9	717.1	714.0	711.0	708.0	705.0
37.5°	786.7	755.2	726.8	706.8	693.4	685.6	683.8	677.7	677.1	672.9	672.9
40°	732.8	700.7	680.7	665.0	654.1	650.4	645.6	644.4	642.6	641.4	643.8
42.5°	678.9	657.1	640.2	623.8	615.3	612.3	611.1	609.3	608.1	611.7	612.9
45°	628.6	609.9	595.3	583.8	579.0	575.3	575.3	577.2	576.6	578.4	578.4
47.5°	582.0	565.1	552.9	548.7	542.6	541.4	542.0	541.4	544.5	546.9	549.3
50°	537.8	522.7	513.0	508.7	507.5	505.7	508.1	509.3	511.2	513.6	514.8
52.5°	488.7	481.5	475.4	471.2	470.6	471.2	470.6	474.8	476.6	480.3	479.7
55°	447.0	441.5	437.3	432.4	431.8	433.6	434.8	438.5	440.9	443.9	443.3
57.5°	407.6	403.3	398.5	397.3	396.7	397.3	402.7	402.1	405.8	408.2	409.4
60°	364.6	361.6	357.3	357.3	359.1	360.3	362.2	365.2	368.8	368.2	372.5
62.5°	325.2	321.6	320.4	322.2	321.6	324.6	326.4	326.4	331.3	333.1	334.3
65°	285.9	284.6	282.8	282.8	284.6	285.3	288.3	290.1	291.9	295.5	298.6
67.5°	248.9	245.9	245.9	244.7	247.1	248.9	250.7	253.2	254.4	258.6	260.4
70°	210.2	208.9	208.3	209.5	209.5	211.4	214.4	217.4	219.8	220.4	224.1
72.5°	172.6	172.6	172.6	174.4	175.6	177.4	178.1	180.5	184.1	184.7	186.5
75°	138.7	139.3	138.7	139.3	139.9	141.7	142.9	145.4	147.8	148.4	149.6
77.5°	107.2	106.0	104.8	106.6	107.8	111.4	110.8	112.0	114.5	113.3	114.5
80°	75.1	76.9	74.5	78.1	78.1	77.5	78.7	80.5	79.9	81.2	79.9
82.5°	50.9	49.1	49.1	50.9	51.5	49.7	50.9	51.5	52.1	50.9	50.3
85°	27.9	27.3	28.5	26.6	27.3	26.0	26.0	24.8	26.0	24.8	23.6
87.5°	10.3	9.7	10.3	8.5	7.9	7.3	6.7	6.7	5.5	5.5	5.5
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: P243173

CATALOG NUMBER: S122DRP-H1005D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1636.4	1636.4	1636.4	1636.4
2.5°	1558.9	1552.2	1549.2	1551.6
5°	1451.7	1453.5	1442.6	1446.2
7.5°	1359.0	1351.2	1353.6	1349.3
10°	1260.9	1256.7	1250.0	1251.2
12.5°	1194.9	1166.4	1164.6	1159.2
15°	1102.2	1086.5	1082.9	1081.7
17.5°	1028.4	1015.0	1019.9	1016.2
20°	961.7	962.3	954.5	949.6
22.5°	903.0	901.8	898.8	893.9
25°	853.3	853.3	846.1	844.2
27.5°	807.9	809.1	803.1	803.1
30°	774.0	769.8	769.1	770.4
32.5°	740.1	735.2	735.8	735.2
35°	703.7	705.0	703.1	701.3
37.5°	672.9	672.9	672.9	671.0
40°	642.6	643.8	642.0	643.2
42.5°	612.3	612.9	612.9	610.5
45°	582.0	581.4	580.2	582.6
47.5°	550.5	550.5	549.9	551.1
50°	516.0	517.2	515.4	514.8
52.5°	480.9	481.5	480.9	482.1
55°	445.1	445.1	445.7	447.0
57.5°	408.2	412.4	409.4	411.8
60°	371.9	372.5	373.1	371.9
62.5°	337.3	336.7	337.3	339.2
65°	299.8	301.0	300.4	299.2
67.5°	262.8	261.6	263.4	261.6
70°	223.5	225.9	224.1	226.5
72.5°	187.7	187.1	188.4	185.3
75°	150.2	150.2	150.8	150.2
77.5°	115.1	113.9	113.3	111.4
80°	79.3	79.3	76.9	78.7
82.5°	48.5	49.1	49.7	46.0
85°	23.0	23.0	22.4	21.8
87.5°	4.8	4.8	5.5	6.1
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243173
 CATALOG NUMBER: S122DRP-H1005D935-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	20.60	22.12	20.96	22.43	22.75	23.44	24.96	23.80	25.27	25.59
	3H	21.95	23.32	22.33	23.64	24.01	24.46	25.82	24.83	26.15	26.51
	4H	22.44	23.72	22.84	24.07	24.44	24.78	26.06	25.18	26.41	26.79
	6H	22.79	23.97	23.20	24.34	24.73	24.98	26.16	25.39	26.53	26.92
	8H	22.89	24.02	23.32	24.41	24.81	25.02	26.15	25.45	26.54	26.94
	12H	22.96	24.04	23.39	24.42	24.85	25.04	26.12	25.47	26.50	26.93
4H	2H	21.48	22.76	21.88	23.11	23.49	23.68	24.96	24.08	25.31	25.69
	3H	22.98	24.04	23.39	24.44	24.84	25.05	26.11	25.46	26.51	26.91
	4H	23.55	24.50	23.98	24.92	25.36	25.56	26.52	25.99	26.93	27.37
	6H	23.98	24.82	24.44	25.26	25.72	25.89	26.73	26.35	27.17	27.63
	8H	24.12	24.90	24.58	25.34	25.81	25.97	26.75	26.43	27.19	27.66
	12H	24.22	24.91	24.70	25.39	25.86	26.01	26.70	26.49	27.18	27.65
8H	4H	23.98	24.76	24.45	25.20	25.67	25.70	26.48	26.16	26.92	27.39
	6H	24.50	25.15	25.00	25.64	26.12	26.14	26.78	26.64	27.27	27.75
	8H	24.69	25.27	25.20	25.78	26.27	26.27	26.85	26.79	27.36	27.85
	12H	24.85	25.35	25.36	25.85	26.41	26.36	26.87	26.87	27.36	27.93
12H	4H	24.04	24.73	24.52	25.21	25.68	25.69	26.39	26.17	26.87	27.34
	6H	24.58	25.16	25.10	25.67	26.16	26.14	26.72	26.66	27.23	27.72
	8H	24.82	25.33	25.33	25.82	26.38	26.32	26.83	26.83	27.32	27.89