

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: P242293

Luminaire Tested: S122DRP-S1005D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242293  
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-S1005D830-X4F0-XX-UDD-A-W  
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

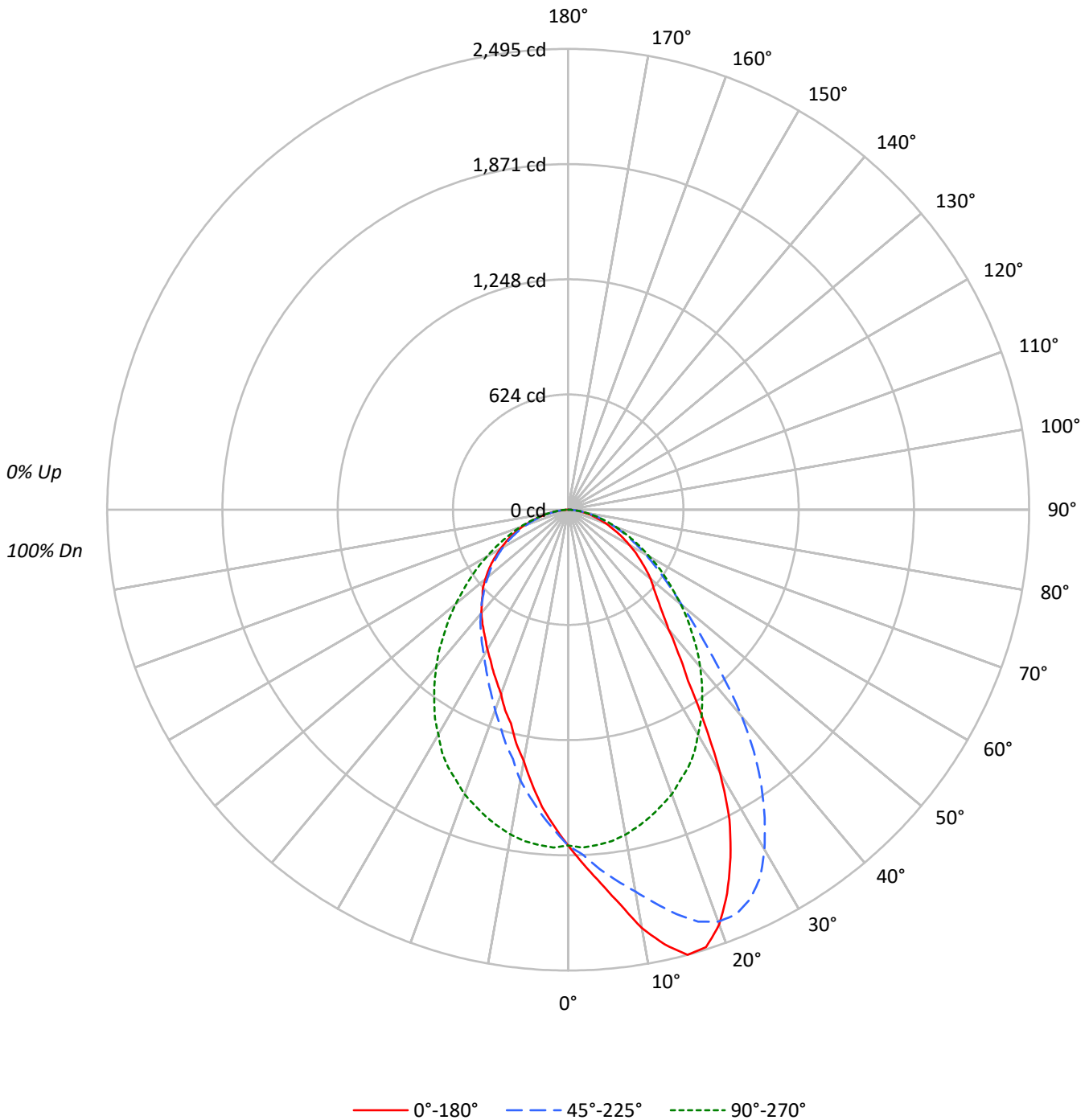
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4009.7 lumens  
Efficiency: N/A  
Efficacy: 97.6 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 (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	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°	34621	34621	34621	34621	34621
5°	38815	37358	34847	31654	30880
10°	44478	40613	34561	28792	26724
15°	49204	44700	33928	25801	23610
20°	48454	48113	33247	23420	21523
25°	43692	48917	32343	21509	20201
30°	36106	46723	30898	20019	19236
35°	26313	42395	29385	19102	18549
40°	21016	36353	27600	18308	18169
45°	18366	29071	25534	17499	17649
50°	17264	23721	23535	16829	17306
55°	15914	20623	21503	16216	16840
60°	14583	18362	19345	15486	16126
65°	13287	16591	17411	14544	15428
70°	12057	14820	15521	13422	14396
75°	10693	13107	13416	12033	12747
80°	9192	11112	11112	9883	10267
85°	8239	9004	8239	6862	6097

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 65°  
 Vertical Angle: 45°  
 Luminance: 44539 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.1	4.3
10°-20°	503.9	12.6
20°-30°	731.3	18.2
30°-40°	770.9	19.2
40°-50°	682.1	17.0
50°-60°	544.5	13.6
60°-70°	369.9	9.2
70°-80°	189.3	4.7
80°-90°	44.7	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°	1408.3	35.1
0°-40°	2179.2	54.3
0°-60°	3405.8	84.9
0°-90°	4009.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4009.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1818	1818	1818	1818	1818	
5°	2030	1954	1822	1656	1615	202
15°	2495	2267	1720	1308	1197	691
25°	2079	2328	1539	1023	961	943
35°	1132	1823	1264	822	798	733
45°	682	1079	948	650	655	534
55°	479	621	648	488	507	430
65°	295	368	386	323	342	293
75°	145	178	182	164	173	155
85°	38	41	38	31	28	43
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°	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6
2.5°	1922.4	1923.1	1924.5	1913.3	1911.9	1911.9	1902.1	1893.7	1884.0	1870.7	1872.1
5°	2030.0	2037.6	2040.4	2032.0	2019.5	2018.1	2006.2	1986.6	1968.5	1953.8	1943.3
7.5°	2154.3	2157.1	2151.5	2141.7	2133.3	2117.3	2097.7	2078.9	2050.9	2025.8	2007.6
10°	2299.6	2303.8	2291.9	2275.8	2262.6	2243.0	2210.9	2178.0	2138.2	2099.8	2069.1
12.5°	2410.0	2421.8	2405.8	2407.2	2382.0	2353.4	2313.6	2301.0	2240.9	2183.6	2150.1
15°	2495.2	2494.5	2495.9	2482.6	2465.8	2461.7	2421.1	2377.1	2298.2	2266.8	2212.3
17.5°	2482.6	2492.4	2498.0	2493.8	2491.0	2484.7	2467.2	2434.4	2391.1	2338.0	2273.0
20°	2390.4	2404.4	2406.5	2422.5	2431.6	2443.5	2448.4	2440.7	2416.2	2373.6	2319.1
22.5°	2247.9	2249.3	2257.0	2284.2	2306.6	2340.8	2359.0	2393.2	2387.6	2372.2	2328.9
25°	2078.9	2071.9	2096.3	2108.9	2154.3	2201.8	2236.0	2273.7	2307.3	2327.5	2314.3
27.5°	1891.6	1877.0	1914.0	1946.8	1979.0	2025.1	2076.8	2138.2	2185.0	2248.6	2264.0
30°	1641.6	1647.9	1682.8	1718.4	1774.3	1846.9	1907.0	1976.2	2050.9	2124.3	2175.3
32.5°	1371.9	1400.6	1419.4	1478.8	1526.3	1609.4	1704.4	1795.2	1893.0	1979.0	2064.9
35°	1131.6	1159.6	1190.3	1230.1	1299.3	1379.6	1465.5	1582.2	1709.3	1823.2	1916.8
37.5°	979.4	974.5	993.3	1022.7	1082.0	1151.2	1253.2	1371.9	1524.2	1650.6	1776.4
40°	845.2	842.4	855.0	881.6	924.2	971.7	1058.3	1159.6	1298.6	1462.0	1619.2
42.5°	753.0	755.8	761.4	778.2	804.0	841.0	900.4	982.8	1107.2	1258.8	1430.6
45°	681.8	686.7	694.3	703.4	720.2	752.3	788.7	850.1	950.7	1079.2	1245.5
47.5°	625.9	627.3	635.7	644.1	653.8	673.4	705.5	744.6	821.5	931.2	1079.9
50°	582.6	577.7	583.3	589.6	600.0	612.6	632.2	668.5	716.0	800.5	920.0
52.5°	529.5	530.9	535.8	537.2	546.3	558.8	576.3	598.6	640.6	702.0	794.9
55°	479.2	482.7	485.5	489.7	498.1	507.1	521.1	537.9	571.4	621.0	693.6
57.5°	431.7	433.1	435.2	444.3	449.2	457.5	471.5	486.9	509.2	547.7	604.9
60°	382.8	382.8	388.4	391.9	398.9	407.2	417.7	432.4	452.0	482.0	526.0
62.5°	338.1	337.4	338.8	345.1	350.0	357.7	368.1	380.0	398.2	424.0	458.2
65°	294.8	293.4	297.6	299.0	304.6	312.2	320.6	333.9	348.6	368.1	400.3
67.5°	251.5	253.6	256.4	259.2	262.0	271.0	276.6	286.4	299.0	315.7	338.1
70°	216.5	216.5	216.5	218.6	222.8	227.0	232.6	240.3	252.2	266.1	285.7
72.5°	177.4	180.2	183.0	180.9	186.5	188.6	195.6	199.1	210.3	217.9	234.7
75°	145.3	145.3	145.3	148.8	150.9	153.0	157.2	161.4	167.0	178.1	187.2
77.5°	114.6	113.9	114.6	115.3	118.1	120.8	122.2	125.7	131.3	136.9	145.3
80°	83.8	85.2	85.9	87.3	87.3	88.7	89.4	94.3	97.8	101.3	106.2
82.5°	60.1	60.1	60.1	60.1	60.8	61.5	63.6	64.3	65.0	67.8	71.3
85°	37.7	37.0	37.0	38.4	37.7	37.7	39.1	40.5	40.5	41.2	43.3
87.5°	18.2	18.2	18.9	18.2	18.2	18.9	18.9	18.2	18.9	19.6	20.3
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°	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6
2.5°	1877.0	1871.4	1867.9	1855.3	1844.1	1833.0	1829.5	1830.9	1815.5	1800.8	1794.5
5°	1937.7	1923.8	1910.5	1891.6	1869.3	1844.8	1832.3	1822.5	1798.0	1771.5	1756.1
7.5°	1992.9	1974.8	1951.0	1917.5	1886.8	1850.4	1828.1	1809.2	1775.0	1739.4	1717.7
10°	2042.5	2015.3	1982.5	1939.1	1899.3	1852.5	1819.7	1786.9	1745.0	1700.2	1672.3
12.5°	2085.1	2046.0	2013.9	1955.2	1906.3	1844.8	1804.3	1754.7	1710.0	1654.8	1627.6
15°	2157.8	2090.0	2028.6	1965.7	1907.7	1826.0	1782.7	1720.5	1662.5	1596.9	1565.4
17.5°	2211.6	2138.2	2043.2	1967.1	1902.8	1815.5	1753.3	1679.3	1613.6	1541.0	1499.1
20°	2256.3	2169.0	2064.9	1969.9	1888.8	1785.5	1716.3	1640.2	1559.8	1475.3	1429.2
22.5°	2282.8	2189.9	2087.2	1959.4	1860.9	1761.0	1669.5	1584.3	1502.6	1409.7	1360.8
25°	2284.2	2200.4	2091.4	1954.5	1838.6	1724.7	1619.9	1538.9	1440.4	1355.2	1284.6
27.5°	2261.2	2194.8	2089.3	1944.7	1812.7	1682.1	1568.2	1479.5	1375.4	1283.2	1212.7
30°	2210.2	2175.3	2073.3	1928.0	1780.6	1637.4	1508.8	1404.8	1301.4	1207.8	1135.1
32.5°	2131.2	2130.5	2043.9	1904.2	1746.3	1580.8	1446.7	1341.2	1223.8	1132.3	1063.9
35°	2023.0	2056.5	1999.9	1866.5	1701.6	1527.7	1383.8	1263.7	1144.9	1056.9	991.9
37.5°	1885.4	1962.9	1940.5	1816.2	1644.4	1471.1	1314.7	1188.9	1075.1	984.2	920.7
40°	1742.2	1848.3	1863.7	1756.8	1582.9	1403.4	1235.0	1110.0	999.6	918.6	854.3
42.5°	1588.5	1717.0	1765.9	1685.6	1515.8	1332.1	1163.8	1033.1	924.2	845.9	790.7
45°	1413.1	1577.3	1653.4	1604.5	1439.7	1252.5	1079.2	947.9	848.7	774.7	730.7
47.5°	1254.6	1432.7	1529.8	1506.7	1358.0	1172.1	1001.0	873.2	774.7	714.6	673.4
50°	1084.1	1268.5	1392.2	1397.8	1268.5	1084.8	913.0	794.2	705.5	650.3	618.2
52.5°	936.0	1110.0	1247.6	1283.2	1168.7	994.0	834.1	716.0	640.6	591.0	563.0
55°	811.0	959.8	1109.3	1163.8	1069.5	901.8	751.6	647.5	574.2	539.3	514.1
57.5°	692.3	822.9	964.7	1022.0	961.9	814.5	669.2	577.7	515.5	484.1	464.5
60°	602.1	699.9	822.9	894.8	844.5	716.7	593.8	507.8	458.9	431.7	413.5
62.5°	518.3	602.1	701.3	765.6	743.9	625.2	518.3	445.0	404.5	379.3	367.4
65°	441.5	509.9	590.3	651.0	632.9	541.4	451.3	386.3	352.8	332.5	322.0
67.5°	375.8	428.2	485.5	541.4	526.0	458.2	382.1	329.7	303.9	285.7	279.4
70°	314.3	352.1	401.7	444.3	432.4	379.3	322.0	278.7	257.1	242.4	236.1
72.5°	255.7	285.0	319.9	352.8	345.8	303.9	258.5	228.4	213.1	199.8	194.9
75°	201.9	225.6	248.7	271.7	269.6	235.4	207.5	182.3	169.0	158.6	156.5
77.5°	157.9	172.5	189.3	204.0	200.5	178.1	155.1	139.7	129.2	122.2	121.5
80°	113.9	121.5	132.7	142.5	137.6	129.2	111.8	101.3	94.3	87.3	84.5
82.5°	74.7	82.4	88.0	92.2	88.7	81.0	71.9	65.7	62.2	58.0	57.3
85°	43.3	47.5	50.3	51.7	50.3	45.4	40.5	37.7	34.2	32.1	31.4
87.5°	21.0	21.0	21.0	22.4	20.3	20.3	17.5	15.4	14.7	14.0	12.6
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°	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6	1817.6
2.5°	1787.6	1783.4	1768.7	1761.0	1748.4	1736.6	1728.9	1732.4	1735.2	1733.8	1731.7
5°	1742.2	1728.9	1708.6	1691.2	1678.6	1655.5	1645.8	1640.9	1636.7	1631.8	1626.9
7.5°	1691.9	1673.0	1644.4	1622.0	1599.7	1570.3	1555.6	1547.3	1538.2	1527.7	1517.9
10°	1637.4	1608.0	1577.3	1542.4	1514.4	1488.6	1465.5	1450.2	1436.2	1422.9	1413.1
12.5°	1580.1	1545.2	1505.4	1454.4	1422.9	1383.1	1384.5	1354.5	1330.7	1323.7	1311.9
15°	1518.6	1471.1	1422.9	1366.3	1341.9	1308.4	1287.4	1266.5	1247.6	1234.3	1230.8
17.5°	1451.6	1388.0	1341.2	1299.3	1259.5	1225.2	1207.1	1190.3	1174.2	1154.7	1154.0
20°	1372.6	1319.5	1267.1	1231.5	1190.3	1155.4	1131.6	1114.9	1101.6	1091.1	1082.0
22.5°	1297.9	1238.5	1191.7	1151.9	1111.4	1084.8	1067.4	1051.3	1040.8	1028.9	1020.6
25°	1216.9	1171.4	1119.1	1075.1	1041.5	1023.4	1008.0	994.0	987.0	979.4	969.6
27.5°	1147.7	1097.4	1045.7	1011.5	980.7	964.7	952.8	942.3	936.0	931.2	924.9
30°	1073.7	1022.7	984.2	950.7	926.3	910.2	903.2	897.6	889.9	887.1	884.4
32.5°	1002.4	957.7	926.3	898.3	875.3	866.2	859.9	855.0	849.4	846.6	840.3
35°	936.0	897.6	865.5	849.4	830.6	821.5	816.6	809.6	804.0	801.2	800.5
37.5°	872.5	837.5	815.9	794.2	785.2	780.3	773.3	768.4	766.3	765.6	764.9
40°	811.0	783.8	764.9	748.1	744.6	736.3	730.7	726.5	726.5	727.2	726.5
42.5°	755.1	731.4	715.3	701.3	697.1	693.0	687.4	688.1	689.5	692.3	689.5
45°	698.5	681.1	669.2	662.2	654.5	649.6	648.9	651.0	651.7	652.4	654.5
47.5°	645.4	634.3	623.1	614.7	611.2	610.5	609.1	612.6	616.1	616.8	620.3
50°	599.3	586.1	577.0	572.1	569.3	567.9	569.3	573.5	576.3	579.8	581.9
52.5°	547.7	539.3	533.7	530.2	529.5	530.9	530.9	535.8	540.7	541.4	542.1
55°	500.9	493.9	492.5	486.2	489.0	488.3	491.8	494.6	498.8	502.9	503.6
57.5°	453.4	447.1	442.9	443.6	444.3	447.1	449.9	454.7	459.6	464.5	464.5
60°	405.9	403.1	401.0	401.0	402.4	406.5	410.0	414.9	417.7	420.5	422.6
62.5°	362.5	359.7	357.7	359.0	363.2	365.3	369.5	371.6	374.4	377.2	377.9
65°	316.4	315.0	317.1	318.5	319.2	322.7	327.6	329.7	332.5	333.9	338.8
67.5°	274.5	274.5	273.8	275.9	280.1	280.8	285.7	291.3	291.3	294.1	297.6
70°	231.9	233.3	234.7	236.1	239.6	241.0	244.5	246.6	249.4	251.5	253.6
72.5°	192.8	192.8	194.2	193.5	196.3	199.8	202.6	204.7	207.5	210.3	212.4
75°	154.4	154.4	155.8	156.5	160.0	163.5	162.8	164.2	167.0	169.7	171.1
77.5°	119.5	118.1	119.5	120.1	121.5	124.3	125.0	127.1	130.6	129.9	131.3
80°	85.9	83.8	85.9	86.6	86.6	90.1	90.1	91.5	93.6	91.5	93.6
82.5°	55.2	54.5	55.9	55.9	57.3	56.6	58.0	58.0	60.1	59.4	60.1
85°	30.7	30.0	30.7	30.0	30.7	31.4	31.4	30.7	30.7	32.1	30.0
87.5°	11.9	11.2	10.5	10.5	9.8	9.1	8.4	8.4	8.4	7.0	7.0
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: P242293

CATALOG NUMBER: S122DRP-S1005D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1817.6	1817.6	1817.6	1817.6
2.5°	1724.7	1723.3	1723.3	1717.0
5°	1617.1	1615.0	1611.5	1615.0
7.5°	1515.1	1506.0	1504.7	1497.7
10°	1401.3	1395.7	1395.0	1381.7
12.5°	1314.7	1299.3	1302.8	1296.5
15°	1212.0	1212.0	1209.2	1197.3
17.5°	1138.6	1137.9	1131.6	1135.8
20°	1074.4	1070.2	1061.8	1061.8
22.5°	1013.6	1014.3	1005.2	1008.7
25°	968.9	963.3	959.1	961.2
27.5°	922.8	920.7	920.0	913.7
30°	883.7	876.7	878.1	874.6
32.5°	838.9	837.5	835.5	832.7
35°	799.1	799.8	796.3	797.7
37.5°	763.5	766.3	764.2	764.2
40°	728.6	728.6	728.6	730.7
42.5°	695.0	693.6	692.3	691.6
45°	655.9	658.0	658.7	655.2
47.5°	621.7	622.4	621.7	625.9
50°	585.4	584.0	585.4	584.0
52.5°	547.0	547.7	546.3	546.3
55°	506.4	507.8	507.1	507.1
57.5°	465.2	465.9	467.3	463.8
60°	421.9	425.4	424.7	423.3
62.5°	382.1	382.8	382.8	382.8
65°	340.9	342.3	340.2	342.3
67.5°	296.2	296.9	298.3	299.0
70°	255.0	254.3	256.4	258.5
72.5°	211.7	213.8	212.4	213.8
75°	169.7	171.8	171.1	173.2
77.5°	129.9	130.6	130.6	131.3
80°	93.6	92.2	90.8	93.6
82.5°	58.0	59.4	58.0	57.3
85°	30.0	29.3	27.9	27.9
87.5°	7.0	6.3	6.3	5.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242293  
 CATALOG NUMBER: S122DRP-S1005D830-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	20.61	22.13	20.98	22.44	22.76	23.87	25.38	24.23	25.69	26.01
	3H	22.02	23.38	22.40	23.71	24.07	24.87	26.23	25.25	26.56	26.92
	4H	22.52	23.80	22.92	24.15	24.53	25.19	26.47	25.59	26.82	27.20
	6H	22.88	24.06	23.29	24.42	24.81	25.39	26.57	25.80	26.93	27.33
	8H	22.99	24.11	23.41	24.50	24.90	25.43	26.55	25.86	26.94	27.35
	12H	23.06	24.13	23.49	24.52	24.95	25.45	26.52	25.88	26.91	27.34
4H	2H	21.47	22.75	21.87	23.10	23.47	24.08	25.35	24.48	25.70	26.08
	3H	23.03	24.09	23.44	24.49	24.89	25.42	26.48	25.83	26.88	27.28
	4H	23.62	24.57	24.05	24.99	25.43	25.92	26.88	26.36	27.29	27.73
	6H	24.06	24.89	24.52	25.34	25.80	26.26	27.09	26.71	27.53	27.99
	8H	24.20	24.98	24.67	25.42	25.89	26.33	27.11	26.79	27.55	28.02
	12H	24.31	25.00	24.79	25.48	25.95	26.37	27.06	26.85	27.54	28.01
8H	4H	24.05	24.83	24.51	25.27	25.74	26.05	26.82	26.51	27.27	27.74
	6H	24.58	25.22	25.08	25.71	26.19	26.49	27.13	26.98	27.62	28.10
	8H	24.78	25.35	25.29	25.86	26.35	26.62	27.19	27.14	27.70	28.19
	12H	24.94	25.44	25.45	25.93	26.50	26.71	27.22	27.22	27.71	28.28
12H	4H	24.11	24.80	24.59	25.28	25.75	26.04	26.74	26.53	27.21	27.69
	6H	24.66	25.23	25.17	25.74	26.23	26.49	27.06	27.00	27.57	28.06
	8H	24.90	25.41	25.41	25.90	26.47	26.67	27.17	27.18	27.67	28.23