

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: P242292

Luminaire Tested: S122DRP-S865D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242292  
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-S865D830-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: -

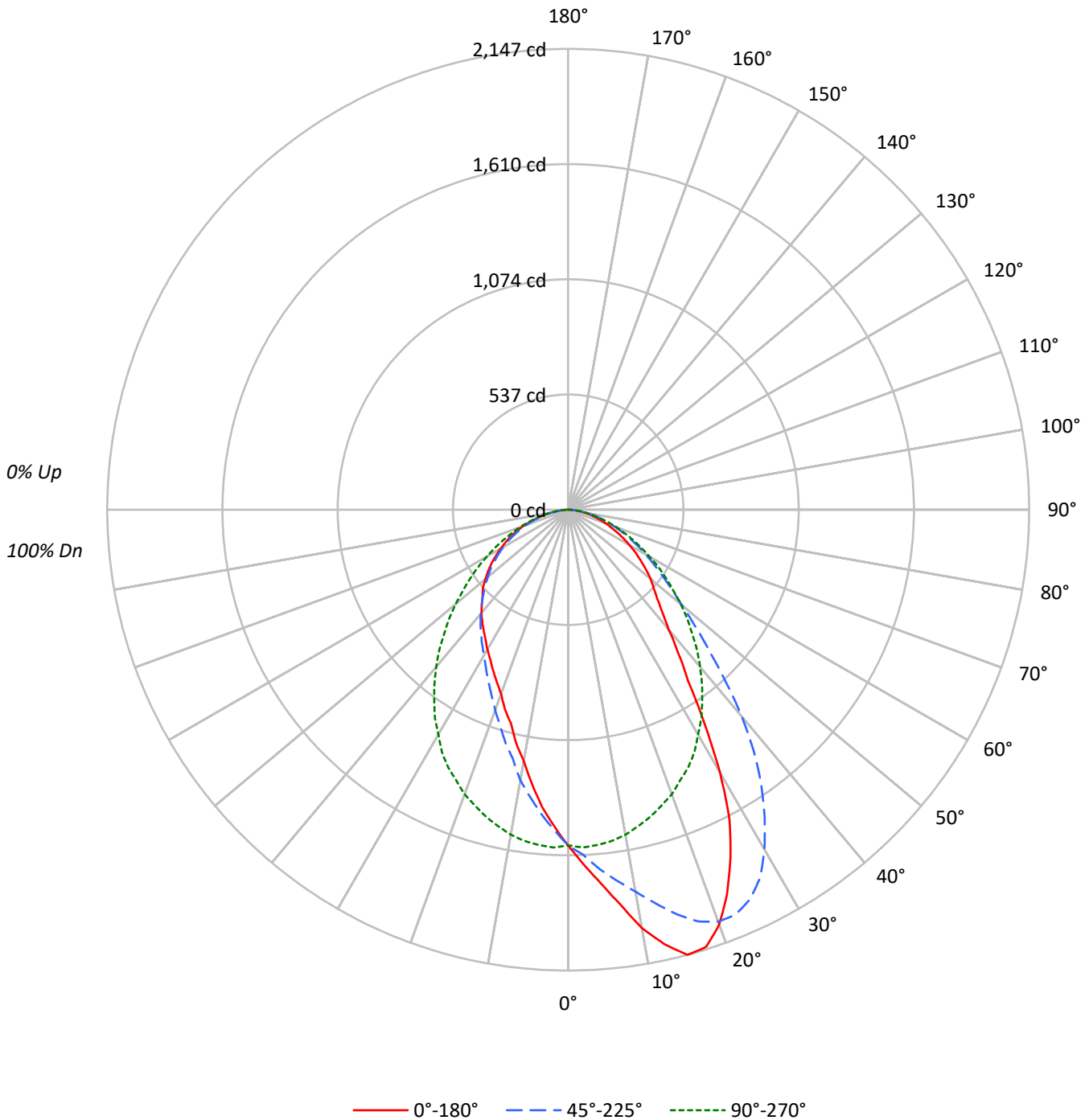
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3450.1 lumens  
Efficiency: N/A  
Efficacy: 99.1 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): 34.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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°	29789	29789	29789	29789	29789
5°	33398	32143	29985	27237	26570
10°	38271	34946	29738	24773	22995
15°	42338	38461	29193	22200	20315
20°	41692	41400	28607	20151	18519
25°	37593	42090	27828	18505	17383
30°	31067	40201	26585	17226	16551
35°	22641	36479	25283	16435	15961
40°	18084	31280	23749	15752	15633
45°	15802	25014	21970	15058	15187
50°	14855	20411	20251	14482	14891
55°	13692	17743	18504	13951	14492
60°	12549	15798	16648	13326	13874
65°	11430	14278	14982	12516	13273
70°	10375	12753	13355	11550	12386
75°	9199	11282	11547	10347	10973
80°	7909	9565	9565	8501	8830
85°	7103	7758	7103	5901	5245

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 65°  
 Vertical Angle: 45°  
 Luminance: 38324 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.0	4.3
10°-20°	433.6	12.6
20°-30°	629.3	18.2
30°-40°	663.3	19.2
40°-50°	586.9	17.0
50°-60°	468.5	13.6
60°-70°	318.2	9.2
70°-80°	162.9	4.7
80°-90°	38.5	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°	1211.8	35.1
0°-40°	1875.1	54.3
0°-60°	2930.5	84.9
0°-90°	3450.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3450.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1564	1564	1564	1564	1564	
5°	1747	1681	1568	1424	1390	174
15°	2147	1950	1480	1126	1030	595
25°	1789	2003	1324	880	827	811
35°	974	1569	1087	707	686	630
45°	587	929	816	559	564	460
55°	412	534	557	420	436	370
65°	254	317	332	278	294	252
75°	125	153	157	141	149	133
85°	32	36	32	27	24	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°	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9
2.5°	1654.1	1654.7	1655.9	1646.3	1645.1	1645.1	1636.7	1629.5	1621.0	1609.6	1610.8
5°	1746.7	1753.3	1755.7	1748.5	1737.6	1736.4	1726.2	1709.4	1693.8	1681.1	1672.1
7.5°	1853.7	1856.1	1851.2	1842.8	1835.6	1821.8	1805.0	1788.7	1764.7	1743.1	1727.4
10°	1978.7	1982.3	1972.1	1958.2	1946.8	1930.0	1902.3	1874.1	1839.8	1806.8	1780.3
12.5°	2073.6	2083.9	2070.0	2071.2	2049.6	2025.0	1990.7	1979.9	1928.2	1878.9	1850.0
15°	2147.0	2146.4	2147.6	2136.1	2121.7	2118.1	2083.3	2045.4	1977.5	1950.4	1903.5
17.5°	2136.1	2144.6	2149.4	2145.8	2143.4	2138.0	2122.9	2094.7	2057.4	2011.7	1955.8
20°	2056.8	2068.8	2070.6	2084.5	2092.3	2102.5	2106.7	2100.1	2079.0	2042.4	1995.5
22.5°	1934.2	1935.4	1942.0	1965.4	1984.7	2014.1	2029.8	2059.2	2054.4	2041.2	2003.9
25°	1788.7	1782.7	1803.8	1814.6	1853.7	1894.5	1924.0	1956.4	1985.3	2002.7	1991.3
27.5°	1627.7	1615.0	1646.9	1675.1	1702.8	1742.5	1786.9	1839.8	1880.1	1934.8	1948.0
30°	1412.5	1417.9	1447.9	1478.6	1526.7	1589.2	1640.9	1700.4	1764.7	1827.8	1871.7
32.5°	1180.5	1205.1	1221.3	1272.4	1313.3	1384.8	1466.6	1544.7	1628.9	1702.8	1776.7
35°	973.7	997.8	1024.2	1058.5	1118.0	1187.1	1261.0	1361.4	1470.8	1568.8	1649.3
37.5°	842.7	838.5	854.7	879.9	931.0	990.5	1078.3	1180.5	1311.5	1420.3	1528.5
40°	727.3	724.9	735.7	758.5	795.2	836.1	910.6	997.8	1117.4	1258.0	1393.2
42.5°	647.9	650.3	655.1	669.6	691.8	723.7	774.8	845.7	952.7	1083.1	1231.0
45°	586.6	590.8	597.4	605.3	619.7	647.3	678.6	731.5	818.0	928.6	1071.7
47.5°	538.5	539.7	547.0	554.2	562.6	579.4	607.1	640.7	706.8	801.2	929.2
50°	501.3	497.1	501.9	507.3	516.3	527.1	544.0	575.2	616.1	688.8	791.6
52.5°	455.6	456.8	461.0	462.2	470.0	480.8	495.9	515.1	551.2	604.1	684.0
55°	412.3	415.3	417.7	421.3	428.6	436.4	448.4	462.8	491.7	534.3	596.8
57.5°	371.5	372.7	374.5	382.3	386.5	393.7	405.7	418.9	438.2	471.2	520.5
60°	329.4	329.4	334.2	337.2	343.2	350.4	359.4	372.1	388.9	414.7	452.6
62.5°	290.9	290.3	291.5	296.9	301.1	307.7	316.8	327.0	342.6	364.8	394.3
65°	253.6	252.4	256.0	257.3	262.1	268.7	275.9	287.3	299.9	316.8	344.4
67.5°	216.4	218.2	220.6	223.0	225.4	233.2	238.0	246.4	257.3	271.7	290.9
70°	186.3	186.3	186.3	188.1	191.7	195.3	200.2	206.8	217.0	229.0	245.8
72.5°	152.7	155.1	157.5	155.7	160.5	162.3	168.3	171.3	180.9	187.5	202.0
75°	125.0	125.0	125.0	128.0	129.8	131.6	135.2	138.8	143.7	153.3	161.1
77.5°	98.6	98.0	98.6	99.2	101.6	104.0	105.2	108.2	113.0	117.8	125.0
80°	72.1	73.3	73.9	75.1	75.1	76.3	76.9	81.1	84.1	87.2	91.4
82.5°	51.7	51.7	51.7	51.7	52.3	52.9	54.7	55.3	55.9	58.3	61.3
85°	32.5	31.9	31.9	33.1	32.5	32.5	33.7	34.9	34.9	35.5	37.3
87.5°	15.6	15.6	16.2	15.6	15.6	16.2	16.2	15.6	16.2	16.8	17.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9
2.5°	1615.0	1610.2	1607.2	1596.4	1586.8	1577.2	1574.2	1575.4	1562.1	1549.5	1544.1
5°	1667.3	1655.3	1643.9	1627.7	1608.4	1587.4	1576.6	1568.2	1547.1	1524.3	1511.1
7.5°	1714.8	1699.2	1678.7	1649.9	1623.4	1592.2	1573.0	1556.7	1527.3	1496.6	1478.0
10°	1757.5	1734.0	1705.8	1668.5	1634.3	1594.0	1565.7	1537.5	1501.4	1463.0	1438.9
12.5°	1794.1	1760.5	1732.8	1682.4	1640.3	1587.4	1552.5	1509.8	1471.4	1423.9	1400.5
15°	1856.7	1798.4	1745.5	1691.4	1641.5	1571.2	1533.9	1480.4	1430.5	1374.0	1347.0
17.5°	1902.9	1839.8	1758.1	1692.6	1637.3	1562.1	1508.6	1444.9	1388.4	1325.9	1289.9
20°	1941.4	1866.3	1776.7	1695.0	1625.3	1536.3	1476.8	1411.3	1342.2	1269.4	1229.8
22.5°	1964.2	1884.3	1796.0	1686.0	1601.2	1515.3	1436.5	1363.2	1292.9	1212.9	1170.9
25°	1965.4	1893.3	1799.6	1681.8	1582.0	1484.0	1393.8	1324.1	1239.4	1166.0	1105.3
27.5°	1945.6	1888.5	1797.8	1673.3	1559.7	1447.3	1349.4	1273.0	1183.5	1104.1	1043.4
30°	1901.7	1871.7	1783.9	1658.9	1532.1	1408.9	1298.3	1208.7	1119.8	1039.2	976.7
32.5°	1833.8	1833.2	1758.7	1638.5	1502.6	1360.2	1244.8	1154.0	1053.0	974.3	915.4
35°	1740.7	1769.5	1720.8	1606.0	1464.2	1314.5	1190.7	1087.3	985.1	909.4	853.5
37.5°	1622.2	1689.0	1669.7	1562.7	1414.9	1265.8	1131.2	1023.0	925.0	846.9	792.2
40°	1499.0	1590.4	1603.6	1511.7	1362.0	1207.5	1062.7	955.1	860.1	790.4	735.1
42.5°	1366.8	1477.4	1519.5	1450.3	1304.3	1146.2	1001.4	889.0	795.2	727.9	680.4
45°	1215.9	1357.2	1422.7	1380.6	1238.8	1077.7	928.6	815.6	730.3	666.6	628.7
47.5°	1079.5	1232.8	1316.3	1296.5	1168.4	1008.6	861.3	751.3	666.6	614.9	579.4
50°	932.8	1091.5	1197.9	1202.7	1091.5	933.4	785.6	683.4	607.1	559.6	531.9
52.5°	805.4	955.1	1073.5	1104.1	1005.6	855.3	717.7	616.1	551.2	508.5	484.4
55°	697.8	825.8	954.5	1001.4	920.2	776.0	646.7	557.2	494.1	464.0	442.4
57.5°	595.6	708.0	830.1	879.3	827.7	700.8	575.8	497.1	443.6	416.5	399.7
60°	518.1	602.3	708.0	770.0	726.7	616.7	510.9	437.0	394.9	371.5	355.8
62.5°	446.0	518.1	603.5	658.8	640.1	537.9	446.0	382.9	348.0	326.4	316.2
65°	379.9	438.8	507.9	560.2	544.6	465.8	388.3	332.4	303.5	286.1	277.1
67.5°	323.4	368.4	417.7	465.8	452.6	394.3	328.8	283.7	261.5	245.8	240.4
70°	270.5	302.9	345.6	382.3	372.1	326.4	277.1	239.8	221.2	208.6	203.2
72.5°	220.0	245.2	275.3	303.5	297.5	261.5	222.4	196.5	183.3	171.9	167.7
75°	173.7	194.1	214.0	233.8	232.0	202.6	178.5	156.9	145.5	136.4	134.6
77.5°	135.8	148.5	162.9	175.5	172.5	153.3	133.4	120.2	111.2	105.2	104.6
80°	98.0	104.6	114.2	122.6	118.4	111.2	96.2	87.2	81.1	75.1	72.7
82.5°	64.3	70.9	75.7	79.3	76.3	69.7	61.9	56.5	53.5	49.9	49.3
85°	37.3	40.9	43.3	44.5	43.3	39.1	34.9	32.5	29.5	27.6	27.0
87.5°	18.0	18.0	18.0	19.2	17.4	17.4	15.0	13.2	12.6	12.0	10.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9
2.5°	1538.1	1534.5	1521.9	1515.3	1504.4	1494.2	1487.6	1490.6	1493.0	1491.8	1490.0
5°	1499.0	1487.6	1470.2	1455.2	1444.3	1424.5	1416.1	1411.9	1408.3	1404.1	1399.9
7.5°	1455.8	1439.5	1414.9	1395.6	1376.4	1351.2	1338.5	1331.3	1323.5	1314.5	1306.1
10°	1408.9	1383.6	1357.2	1327.1	1303.1	1280.8	1261.0	1247.8	1235.8	1224.3	1215.9
12.5°	1359.6	1329.5	1295.3	1251.4	1224.3	1190.1	1191.3	1165.4	1145.0	1139.0	1128.8
15°	1306.7	1265.8	1224.3	1175.7	1154.6	1125.8	1107.7	1089.7	1073.5	1062.1	1059.1
17.5°	1249.0	1194.3	1154.0	1118.0	1083.7	1054.2	1038.6	1024.2	1010.4	993.5	992.9
20°	1181.1	1135.4	1090.3	1059.7	1024.2	994.1	973.7	959.3	947.9	938.8	931.0
22.5°	1116.8	1065.7	1025.4	991.1	956.3	933.4	918.4	904.6	895.6	885.4	878.1
25°	1047.0	1008.0	962.9	925.0	896.2	880.5	867.3	855.3	849.3	842.7	834.3
27.5°	987.5	944.3	899.8	870.3	843.9	830.1	819.8	810.8	805.4	801.2	795.8
30°	923.8	879.9	846.9	818.0	797.0	783.2	777.2	772.4	765.7	763.3	760.9
32.5°	862.5	824.0	797.0	773.0	753.1	745.3	739.9	735.7	730.9	728.5	723.1
35°	805.4	772.4	744.7	730.9	714.7	706.8	702.6	696.6	691.8	689.4	688.8
37.5°	750.7	720.7	702.0	683.4	675.6	671.4	665.4	661.2	659.4	658.8	658.2
40°	697.8	674.4	658.2	643.7	640.7	633.5	628.7	625.1	625.1	625.7	625.1
42.5°	649.7	629.3	615.5	603.5	599.9	596.2	591.4	592.0	593.2	595.6	593.2
45°	601.1	586.0	575.8	569.8	563.2	559.0	558.4	560.2	560.8	561.4	563.2
47.5°	555.4	545.8	536.1	528.9	525.9	525.3	524.1	527.1	530.1	530.7	533.7
50°	515.7	504.3	496.5	492.3	489.9	488.7	489.9	493.5	495.9	498.9	500.7
52.5°	471.2	464.0	459.2	456.2	455.6	456.8	456.8	461.0	465.2	465.8	466.4
55°	431.0	424.9	423.7	418.3	420.7	420.1	423.1	425.5	429.2	432.8	433.4
57.5°	390.1	384.7	381.1	381.7	382.3	384.7	387.1	391.3	395.5	399.7	399.7
60°	349.2	346.8	345.0	345.0	346.2	349.8	352.8	357.0	359.4	361.8	363.6
62.5°	311.9	309.5	307.7	308.9	312.5	314.4	318.0	319.8	322.2	324.6	325.2
65°	272.3	271.1	272.9	274.1	274.7	277.7	281.9	283.7	286.1	287.3	291.5
67.5°	236.2	236.2	235.6	237.4	241.0	241.6	245.8	250.6	250.6	253.0	256.0
70°	199.6	200.8	202.0	203.2	206.2	207.4	210.4	212.2	214.6	216.4	218.2
72.5°	165.9	165.9	167.1	166.5	168.9	171.9	174.3	176.1	178.5	180.9	182.7
75°	132.8	132.8	134.0	134.6	137.6	140.6	140.0	141.2	143.7	146.1	147.3
77.5°	102.8	101.6	102.8	103.4	104.6	107.0	107.6	109.4	112.4	111.8	113.0
80°	73.9	72.1	73.9	74.5	74.5	77.5	77.5	78.7	80.5	78.7	80.5
82.5°	47.5	46.9	48.1	48.1	49.3	48.7	49.9	49.9	51.7	51.1	51.7
85°	26.4	25.8	26.4	25.8	26.4	27.0	27.0	26.4	26.4	27.6	25.8
87.5°	10.2	9.6	9.0	9.0	8.4	7.8	7.2	7.2	7.2	6.0	6.0
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: P242292

CATALOG NUMBER: S122DRP-S865D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1563.9	1563.9	1563.9	1563.9
2.5°	1484.0	1482.8	1482.8	1477.4
5°	1391.4	1389.6	1386.6	1389.6
7.5°	1303.7	1295.9	1294.7	1288.7
10°	1205.7	1200.9	1200.3	1188.9
12.5°	1131.2	1118.0	1121.0	1115.6
15°	1042.8	1042.8	1040.4	1030.2
17.5°	979.7	979.1	973.7	977.3
20°	924.4	920.8	913.6	913.6
22.5°	872.1	872.7	864.9	867.9
25°	833.7	828.9	825.2	827.1
27.5°	794.0	792.2	791.6	786.2
30°	760.3	754.3	755.5	752.5
32.5°	721.9	720.7	718.9	716.5
35°	687.6	688.2	685.2	686.4
37.5°	657.0	659.4	657.6	657.6
40°	626.9	626.9	626.9	628.7
42.5°	598.0	596.8	595.6	595.0
45°	564.4	566.2	566.8	563.8
47.5°	534.9	535.5	534.9	538.5
50°	503.7	502.5	503.7	502.5
52.5°	470.6	471.2	470.0	470.0
55°	435.8	437.0	436.4	436.4
57.5°	400.3	400.9	402.1	399.1
60°	363.0	366.0	365.4	364.2
62.5°	328.8	329.4	329.4	329.4
65°	293.3	294.5	292.7	294.5
67.5°	254.8	255.4	256.7	257.3
70°	219.4	218.8	220.6	222.4
72.5°	182.1	183.9	182.7	183.9
75°	146.1	147.9	147.3	149.1
77.5°	111.8	112.4	112.4	113.0
80°	80.5	79.3	78.1	80.5
82.5°	49.9	51.1	49.9	49.3
85°	25.8	25.2	24.0	24.0
87.5°	6.0	5.4	5.4	4.8
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242292  
 CATALOG NUMBER: S122DRP-S865D830-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	20.09	21.61	20.45	21.92	22.23	23.34	24.86	23.71	25.17	25.49
	3H	21.50	22.86	21.87	23.18	23.55	24.35	25.71	24.73	26.04	26.40
	4H	22.00	23.28	22.40	23.62	24.00	24.67	25.95	25.07	26.30	26.67
	6H	22.35	23.53	22.77	23.90	24.29	24.87	26.04	25.28	26.41	26.80
	8H	22.47	23.59	22.89	23.98	24.38	24.91	26.03	25.34	26.42	26.82
	12H	22.54	23.61	22.97	23.99	24.42	24.93	26.00	25.36	26.38	26.81
4H	2H	20.95	22.22	21.35	22.57	22.95	23.55	24.83	23.95	25.18	25.56
	3H	22.50	23.56	22.91	23.96	24.36	24.89	25.95	25.30	26.35	26.75
	4H	23.09	24.05	23.53	24.46	24.90	25.40	26.35	25.83	26.77	27.21
	6H	23.54	24.37	24.00	24.81	25.27	25.73	26.56	26.19	27.01	27.47
	8H	23.68	24.46	24.14	24.90	25.37	25.81	26.58	26.27	27.03	27.50
	12H	23.78	24.48	24.27	24.95	25.43	25.85	26.54	26.33	27.02	27.49
8H	4H	23.53	24.30	23.99	24.75	25.21	25.53	26.30	25.99	26.75	27.21
	6H	24.06	24.70	24.56	25.19	25.67	25.97	26.61	26.46	27.10	27.57
	8H	24.25	24.83	24.77	25.34	25.82	26.10	26.67	26.61	27.18	27.67
	12H	24.41	24.92	24.92	25.41	25.98	26.19	26.70	26.70	27.19	27.75
12H	4H	23.58	24.28	24.07	24.75	25.23	25.52	26.21	26.00	26.69	27.16
	6H	24.14	24.71	24.65	25.22	25.71	25.97	26.54	26.48	27.05	27.54
	8H	24.38	24.89	24.89	25.38	25.94	26.14	26.65	26.65	27.14	27.71