

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: P242302

Luminaire Tested: S122DRP-S865D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242302  
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-S865D840-X4F0-XX-UDD-A-W  
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

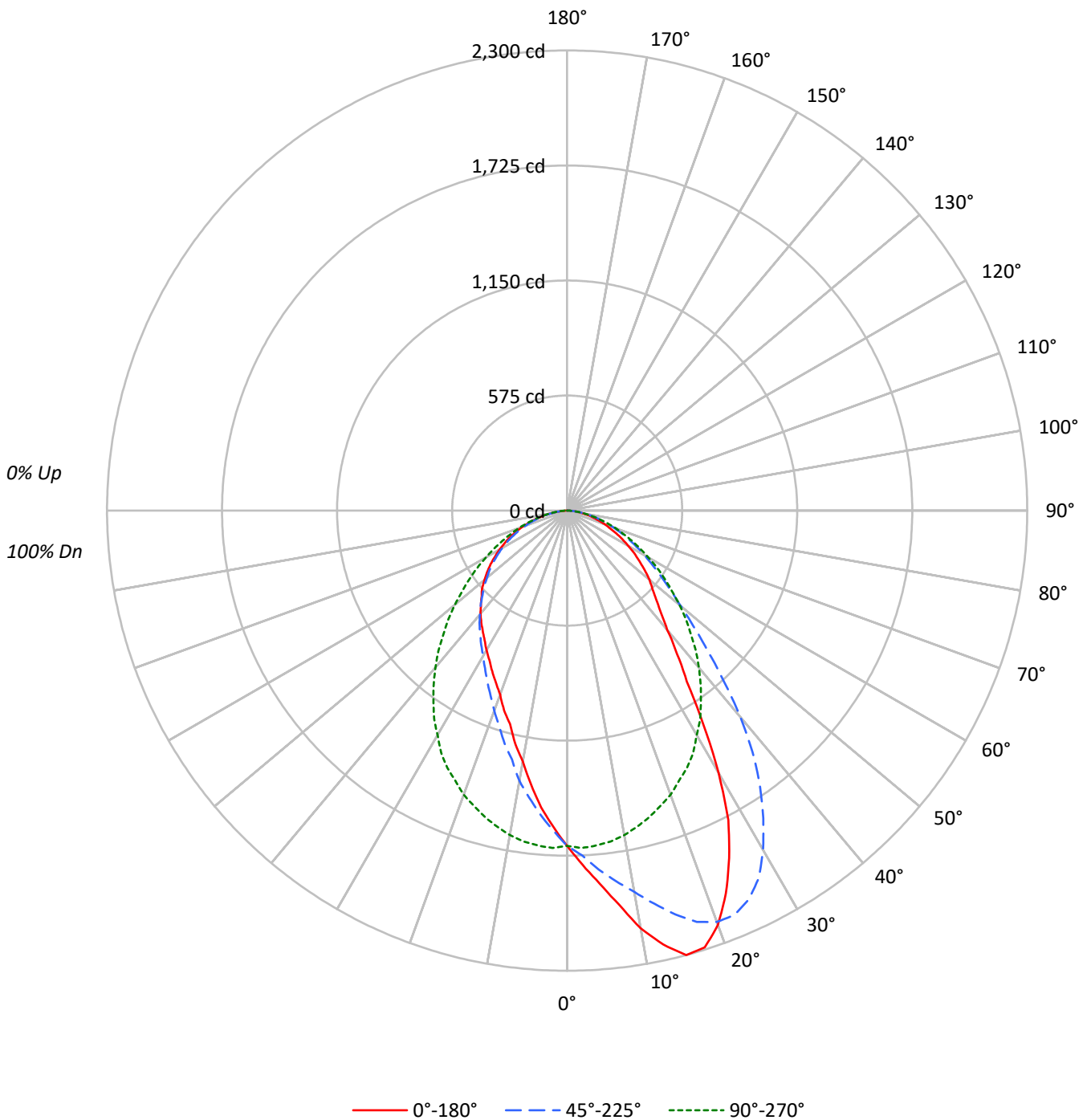
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3696.6 lumens  
Efficiency: N/A  
Efficacy: 106.2 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	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					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43					43			
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32					32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	31918	31918	31918	31918	31918
5°	35782	34440	32126	29182	28468
10°	41004	37441	31861	26542	24637
15°	45361	41208	31277	23786	21767
20°	44669	44357	30650	21592	19842
25°	40279	45098	29817	19827	18623
30°	33286	43074	28485	18456	17734
35°	24260	39084	27090	17609	17100
40°	19375	33516	25444	16878	16749
45°	16930	26803	23541	16133	16273
50°	15916	21869	21697	15516	15954
55°	14672	19012	19826	14947	15525
60°	13444	16930	17836	14278	14869
65°	12250	15297	16050	13409	14224
70°	11116	13667	14313	12375	13271
75°	9854	12084	12371	11091	11753
80°	8479	10245	10245	9115	9466
85°	7605	8305	7605	6338	5639

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 65°  
 Vertical Angle: 45°  
 Luminance: 41061 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.6	4.3
10°-20°	464.5	12.6
20°-30°	674.2	18.2
30°-40°	710.7	19.2
40°-50°	628.8	17.0
50°-60°	502.0	13.6
60°-70°	341.0	9.2
70°-80°	174.5	4.7
80°-90°	41.2	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°	1298.3	35.1
0°-40°	2009.0	54.3
0°-60°	3139.9	84.9
0°-90°	3696.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1676	1676	1676	1676	1676	
5°	1871	1801	1680	1526	1489	186
15°	2300	2090	1586	1206	1104	637
25°	1916	2146	1419	943	886	869
35°	1043	1681	1165	757	735	675
45°	628	995	874	599	604	493
55°	442	572	597	450	468	396
65°	272	339	356	298	316	270
75°	134	164	168	151	160	143
85°	35	38	35	29	26	40
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°	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7
2.5°	1772.2	1772.9	1774.2	1763.9	1762.6	1762.6	1753.6	1745.8	1736.8	1724.6	1725.9
5°	1871.4	1878.5	1881.1	1873.4	1861.8	1860.5	1849.5	1831.5	1814.8	1801.2	1791.6
7.5°	1986.1	1988.6	1983.5	1974.5	1966.7	1951.9	1933.9	1916.5	1890.7	1867.6	1850.8
10°	2120.0	2123.9	2112.9	2098.1	2085.9	2067.8	2038.2	2007.9	1971.2	1935.8	1907.5
12.5°	2221.8	2232.7	2217.9	2219.2	2196.0	2169.6	2132.9	2121.3	2065.9	2013.1	1982.2
15°	2300.3	2299.7	2301.0	2288.7	2273.3	2269.4	2232.1	2191.5	2118.7	2089.7	2039.5
17.5°	2288.7	2297.7	2302.9	2299.0	2296.5	2290.7	2274.6	2244.3	2204.4	2155.4	2095.5
20°	2203.7	2216.6	2218.5	2233.3	2241.7	2252.7	2257.2	2250.1	2227.5	2188.3	2138.0
22.5°	2072.3	2073.6	2080.7	2105.8	2126.4	2158.0	2174.7	2206.3	2201.1	2187.0	2147.0
25°	1916.5	1910.1	1932.6	1944.2	1986.1	2029.8	2061.4	2096.2	2127.1	2145.8	2133.5
27.5°	1743.9	1730.4	1764.5	1794.8	1824.4	1866.9	1914.6	1971.2	2014.4	2073.0	2087.2
30°	1513.4	1519.2	1551.4	1584.2	1635.7	1702.7	1758.1	1821.8	1890.7	1958.4	2005.4
32.5°	1264.8	1291.2	1308.6	1363.3	1407.1	1483.7	1571.3	1655.0	1745.2	1824.4	1903.6
35°	1043.3	1069.0	1097.4	1134.1	1197.8	1271.9	1351.1	1458.6	1575.8	1680.8	1767.1
37.5°	902.9	898.4	915.7	942.8	997.5	1061.3	1155.3	1264.8	1405.2	1521.7	1637.7
40°	779.2	776.6	788.2	812.7	852.0	895.8	975.6	1069.0	1197.2	1347.9	1492.8
42.5°	694.2	696.8	701.9	717.4	741.2	775.4	830.1	906.1	1020.7	1160.5	1318.9
45°	628.5	633.0	640.1	648.5	663.9	693.6	727.1	783.7	876.5	995.0	1148.2
47.5°	577.0	578.3	586.0	593.8	602.8	620.8	650.4	686.5	757.3	858.4	995.6
50°	537.1	532.6	537.7	543.5	553.2	564.8	582.8	616.3	660.1	738.0	848.1
52.5°	488.1	489.4	493.9	495.2	503.6	515.2	531.3	551.9	590.5	647.2	732.9
55°	441.8	445.0	447.6	451.4	459.2	467.5	480.4	495.9	526.8	572.5	639.5
57.5°	398.0	399.3	401.2	409.6	414.1	421.8	434.7	448.9	469.5	504.9	557.7
60°	352.9	352.9	358.1	361.3	367.7	375.4	385.1	398.6	416.7	444.4	484.9
62.5°	311.7	311.0	312.3	318.1	322.6	329.7	339.4	350.3	367.1	390.9	422.5
65°	271.8	270.5	274.3	275.6	280.8	287.9	295.6	307.8	321.3	339.4	369.0
67.5°	231.8	233.8	236.3	238.9	241.5	249.9	255.0	264.0	275.6	291.1	311.7
70°	199.6	199.6	199.6	201.6	205.4	209.3	214.4	221.5	232.5	245.4	263.4
72.5°	163.6	166.1	168.7	166.8	171.9	173.9	180.3	183.5	193.8	200.9	216.4
75°	133.9	133.9	133.9	137.2	139.1	141.0	144.9	148.8	153.9	164.2	172.6
77.5°	105.6	105.0	105.6	106.3	108.8	111.4	112.7	115.9	121.1	126.2	133.9
80°	77.3	78.6	79.2	80.5	80.5	81.8	82.4	86.9	90.2	93.4	97.9
82.5°	55.4	55.4	55.4	55.4	56.0	56.7	58.6	59.2	59.9	62.5	65.7
85°	34.8	34.1	34.1	35.4	34.8	34.8	36.1	37.4	37.4	38.0	39.9
87.5°	16.7	16.7	17.4	16.7	16.7	17.4	17.4	16.7	17.4	18.0	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°	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7
2.5°	1730.4	1725.2	1722.0	1710.4	1700.1	1689.8	1686.6	1687.9	1673.7	1660.2	1654.4
5°	1786.4	1773.5	1761.3	1743.9	1723.3	1700.8	1689.2	1680.2	1657.6	1633.1	1619.0
7.5°	1837.3	1820.5	1798.7	1767.7	1739.4	1705.9	1685.3	1667.9	1636.4	1603.5	1583.6
10°	1883.0	1857.9	1827.6	1787.7	1751.0	1707.8	1677.6	1647.3	1608.7	1567.5	1541.7
12.5°	1922.3	1886.2	1856.6	1802.5	1757.4	1700.8	1663.4	1617.7	1576.5	1525.6	1500.5
15°	1989.3	1926.8	1870.1	1812.2	1758.7	1683.4	1643.5	1586.1	1532.7	1472.2	1443.2
17.5°	2038.9	1971.2	1883.7	1813.5	1754.2	1673.7	1616.4	1548.1	1487.6	1420.6	1382.0
20°	2080.1	1999.6	1903.6	1816.0	1741.3	1646.0	1582.3	1512.1	1438.0	1360.1	1317.6
22.5°	2104.5	2018.9	1924.2	1806.4	1715.6	1623.5	1539.1	1460.6	1385.2	1299.6	1254.5
25°	2105.8	2028.6	1928.1	1801.9	1695.0	1590.0	1493.4	1418.7	1327.9	1249.3	1184.3
27.5°	2084.6	2023.4	1926.2	1792.9	1671.1	1550.7	1445.7	1364.0	1268.0	1183.0	1118.0
30°	2037.6	2005.4	1911.3	1777.4	1641.5	1509.5	1391.0	1295.1	1199.7	1113.5	1046.5
32.5°	1964.8	1964.2	1884.3	1755.5	1610.0	1457.3	1333.7	1236.5	1128.3	1043.9	980.8
35°	1865.0	1895.9	1843.7	1720.7	1568.7	1408.4	1275.7	1165.0	1055.5	974.4	914.5
37.5°	1738.1	1809.6	1789.0	1674.4	1515.9	1356.2	1212.0	1096.1	991.1	907.4	848.8
40°	1606.1	1704.0	1718.2	1619.6	1459.3	1293.8	1138.6	1023.3	921.5	846.8	787.6
42.5°	1464.4	1582.9	1628.0	1553.9	1397.4	1228.1	1072.9	952.5	852.0	779.9	729.0
45°	1302.8	1454.1	1524.3	1479.2	1327.3	1154.7	995.0	873.9	782.4	714.2	673.6
47.5°	1156.6	1320.8	1410.3	1389.1	1251.9	1080.6	922.8	805.0	714.2	658.8	620.8
50°	999.5	1169.5	1283.5	1288.6	1169.5	1000.1	841.7	732.2	650.4	599.6	569.9
52.5°	862.9	1023.3	1150.2	1183.0	1077.4	916.4	768.9	660.1	590.5	544.8	519.1
55°	747.7	884.8	1022.6	1072.9	985.9	831.4	692.9	597.0	529.4	497.2	474.0
57.5°	638.2	758.6	889.3	942.2	886.8	750.9	616.9	532.6	475.3	446.3	428.3
60°	555.1	645.3	758.6	824.9	778.6	660.7	547.4	468.2	423.1	398.0	381.2
62.5°	477.8	555.1	646.6	705.8	685.8	576.4	477.8	410.2	372.9	349.7	338.7
65°	407.0	470.1	544.2	600.2	583.5	499.1	416.0	356.1	325.2	306.5	296.9
67.5°	346.5	394.8	447.6	499.1	484.9	422.5	352.3	304.0	280.1	263.4	257.6
70°	289.8	324.6	370.3	409.6	398.6	349.7	296.9	257.0	237.0	223.5	217.7
72.5°	235.7	262.7	294.9	325.2	318.8	280.1	238.3	210.6	196.4	184.2	179.7
75°	186.1	208.0	229.3	250.5	248.6	217.0	191.3	168.1	155.8	146.2	144.3
77.5°	145.5	159.1	174.5	188.0	184.8	164.2	143.0	128.8	119.1	112.7	112.1
80°	105.0	112.1	122.4	131.4	126.9	119.1	103.0	93.4	86.9	80.5	77.9
82.5°	68.9	76.0	81.1	85.0	81.8	74.7	66.3	60.5	57.3	53.5	52.8
85°	39.9	43.8	46.4	47.7	46.4	41.9	37.4	34.8	31.6	29.6	29.0
87.5°	19.3	19.3	19.3	20.6	18.7	18.7	16.1	14.2	13.5	12.9	11.6
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°	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7	1675.7
2.5°	1648.0	1644.1	1630.6	1623.5	1611.9	1600.9	1593.9	1597.1	1599.7	1598.4	1596.4
5°	1606.1	1593.9	1575.2	1559.1	1547.5	1526.2	1517.2	1512.7	1508.9	1504.4	1499.8
7.5°	1559.7	1542.3	1515.9	1495.3	1474.7	1447.7	1434.2	1426.4	1418.1	1408.4	1399.4
10°	1509.5	1482.5	1454.1	1421.9	1396.2	1372.3	1351.1	1336.9	1324.0	1311.8	1302.8
12.5°	1456.7	1424.5	1387.8	1340.8	1311.8	1275.1	1276.4	1248.7	1226.8	1220.4	1209.4
15°	1400.0	1356.2	1311.8	1259.6	1237.1	1206.2	1186.9	1167.5	1150.2	1137.9	1134.7
17.5°	1338.2	1279.6	1236.5	1197.8	1161.1	1129.6	1112.8	1097.4	1082.5	1064.5	1063.9
20°	1265.4	1216.5	1168.2	1135.3	1097.4	1065.2	1043.3	1027.8	1015.6	1005.9	997.5
22.5°	1196.5	1141.8	1098.6	1061.9	1024.6	1000.1	984.0	969.2	959.5	948.6	940.9
25°	1121.8	1080.0	1031.7	991.1	960.2	943.4	929.3	916.4	910.0	902.9	893.9
27.5°	1058.1	1011.7	964.0	932.5	904.2	889.3	878.4	868.7	862.9	858.4	852.6
30°	989.8	942.8	907.4	876.5	853.9	839.1	832.7	827.5	820.4	817.9	815.3
32.5°	924.1	882.9	853.9	828.2	806.9	798.5	792.7	788.2	783.1	780.5	774.7
35°	862.9	827.5	797.9	783.1	765.7	757.3	752.8	746.4	741.2	738.7	738.0
37.5°	804.3	772.1	752.2	732.2	723.8	719.3	712.9	708.4	706.5	705.8	705.2
40°	747.7	722.6	705.2	689.7	686.5	678.8	673.6	669.7	669.7	670.4	669.7
42.5°	696.1	674.3	659.4	646.6	642.7	638.8	633.7	634.3	635.6	638.2	635.6
45°	644.0	627.9	616.9	610.5	603.4	598.9	598.3	600.2	600.8	601.5	603.4
47.5°	595.0	584.7	574.4	566.7	563.5	562.8	561.6	564.8	568.0	568.6	571.9
50°	552.5	540.3	531.9	527.4	524.8	523.6	524.8	528.7	531.3	534.5	536.4
52.5°	504.9	497.2	492.0	488.8	488.1	489.4	489.4	493.9	498.4	499.1	499.7
55°	461.7	455.3	454.0	448.2	450.8	450.1	453.4	455.9	459.8	463.7	464.3
57.5°	417.9	412.2	408.3	408.9	409.6	412.2	414.7	419.2	423.7	428.3	428.3
60°	374.2	371.6	369.6	369.6	370.9	374.8	378.0	382.5	385.1	387.7	389.6
62.5°	334.2	331.7	329.7	331.0	334.9	336.8	340.7	342.6	345.2	347.8	348.4
65°	291.7	290.4	292.4	293.7	294.3	297.5	302.0	304.0	306.5	307.8	312.3
67.5°	253.1	253.1	252.4	254.4	258.2	258.9	263.4	268.5	268.5	271.1	274.3
70°	213.8	215.1	216.4	217.7	220.9	222.2	225.4	227.3	229.9	231.8	233.8
72.5°	177.7	177.7	179.0	178.4	181.0	184.2	186.8	188.7	191.3	193.8	195.8
75°	142.3	142.3	143.6	144.3	147.5	150.7	150.0	151.3	153.9	156.5	157.8
77.5°	110.1	108.8	110.1	110.8	112.1	114.6	115.3	117.2	120.4	119.8	121.1
80°	79.2	77.3	79.2	79.9	79.9	83.1	83.1	84.4	86.3	84.4	86.3
82.5°	50.9	50.2	51.5	51.5	52.8	52.2	53.5	53.5	55.4	54.7	55.4
85°	28.3	27.7	28.3	27.7	28.3	29.0	29.0	28.3	28.3	29.6	27.7
87.5°	10.9	10.3	9.7	9.7	9.0	8.4	7.7	7.7	7.7	6.4	6.4
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: P242302

CATALOG NUMBER: S122DRP-S865D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1675.7	1675.7	1675.7	1675.7
2.5°	1590.0	1588.7	1588.7	1582.9
5°	1490.8	1488.9	1485.7	1488.9
7.5°	1396.8	1388.4	1387.1	1380.7
10°	1291.8	1286.7	1286.0	1273.8
12.5°	1212.0	1197.8	1201.0	1195.2
15°	1117.3	1117.3	1114.7	1103.8
17.5°	1049.7	1049.1	1043.3	1047.1
20°	990.4	986.6	978.9	978.9
22.5°	934.4	935.1	926.7	929.9
25°	893.2	888.1	884.2	886.1
27.5°	850.7	848.8	848.1	842.3
30°	814.6	808.2	809.5	806.3
32.5°	773.4	772.1	770.2	767.6
35°	736.7	737.4	734.1	735.4
37.5°	703.9	706.5	704.5	704.5
40°	671.7	671.7	671.7	673.6
42.5°	640.8	639.5	638.2	637.5
45°	604.7	606.6	607.3	604.1
47.5°	573.1	573.8	573.1	577.0
50°	539.7	538.4	539.7	538.4
52.5°	504.2	504.9	503.6	503.6
55°	466.9	468.2	467.5	467.5
57.5°	428.9	429.5	430.8	427.6
60°	389.0	392.2	391.5	390.3
62.5°	352.3	352.9	352.9	352.9
65°	314.3	315.6	313.6	315.6
67.5°	273.0	273.7	275.0	275.6
70°	235.1	234.4	236.3	238.3
72.5°	195.1	197.1	195.8	197.1
75°	156.5	158.4	157.8	159.7
77.5°	119.8	120.4	120.4	121.1
80°	86.3	85.0	83.7	86.3
82.5°	53.5	54.7	53.5	52.8
85°	27.7	27.0	25.8	25.8
87.5°	6.4	5.8	5.8	5.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242302  
 CATALOG NUMBER: S122DRP-S865D840-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	20.33	21.84	20.69	22.16	22.47	23.58	25.10	23.95	25.41	25.73
	3H	21.74	23.10	22.11	23.42	23.79	24.59	25.95	24.97	26.28	26.64
	4H	22.24	23.52	22.64	23.86	24.24	24.91	26.19	25.31	26.54	26.91
	6H	22.59	23.77	23.01	24.14	24.53	25.11	26.28	25.52	26.65	27.04
	8H	22.70	23.83	23.13	24.22	24.62	25.15	26.27	25.58	26.66	27.06
	12H	22.78	23.85	23.21	24.23	24.66	25.17	26.24	25.60	26.62	27.05
4H	2H	21.19	22.46	21.59	22.81	23.19	23.79	25.07	24.19	25.42	25.80
	3H	22.74	23.80	23.15	24.20	24.60	25.13	26.19	25.54	26.59	26.99
	4H	23.33	24.29	23.77	24.70	25.14	25.64	26.59	26.07	27.01	27.45
	6H	23.78	24.61	24.24	25.05	25.51	25.97	26.80	26.43	27.25	27.71
	8H	23.92	24.70	24.38	25.14	25.61	26.05	26.82	26.51	27.27	27.74
	12H	24.02	24.72	24.51	25.19	25.67	26.09	26.78	26.57	27.26	27.73
8H	4H	23.77	24.54	24.23	24.99	25.45	25.77	26.54	26.23	26.99	27.45
	6H	24.30	24.94	24.80	25.43	25.91	26.21	26.85	26.70	27.34	27.81
	8H	24.49	25.07	25.01	25.58	26.06	26.34	26.91	26.85	27.42	27.91
	12H	24.65	25.16	25.16	25.65	26.22	26.43	26.94	26.94	27.43	27.99
12H	4H	23.82	24.52	24.31	24.99	25.46	25.76	26.45	26.24	26.93	27.40
	6H	24.38	24.95	24.89	25.46	25.95	26.21	26.78	26.72	27.29	27.78
	8H	24.62	25.13	25.13	25.62	26.18	26.38	26.89	26.89	27.38	27.95