

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: P242298

Luminaire Tested: S122DRP-S1005D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242298  
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-S1005D835-X4F0-XX-UDD-A-W  
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

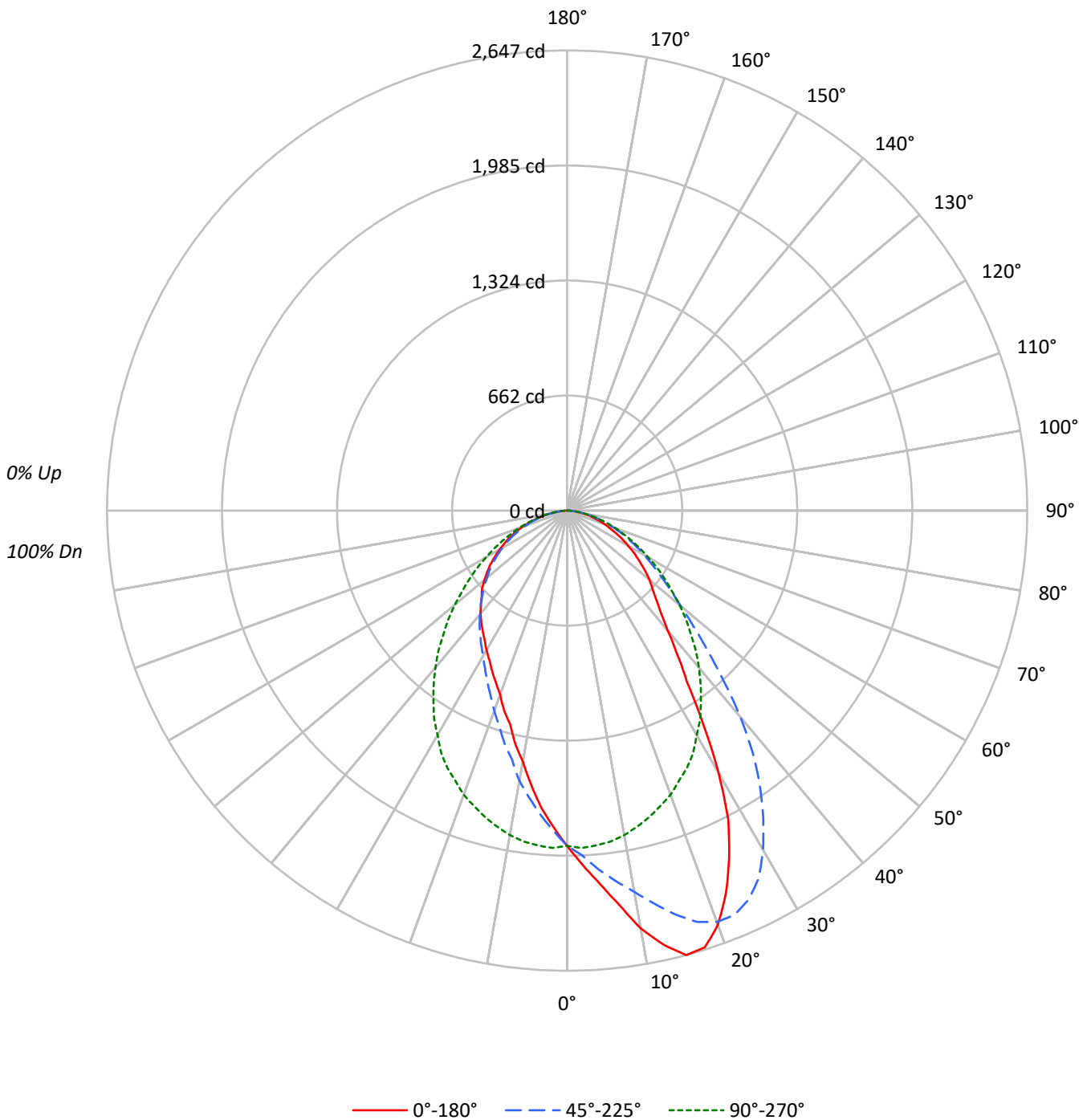
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4254.2 lumens  
Efficiency: N/A  
Efficacy: 103.5 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 (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				
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°	36732	36732	36732	36732	36732
5°	41180	39635	36971	33585	32763
10°	47190	43089	36668	30546	28353
15°	52204	47424	35996	27373	25050
20°	51407	51046	35274	24847	22834
25°	46355	51899	34314	22818	21433
30°	38305	49571	32780	21240	20409
35°	27918	44978	31175	20267	19681
40°	22299	38571	29281	19422	19275
45°	19484	30843	27091	18565	18727
50°	18316	25167	24972	17854	18361
55°	16883	21881	22814	17202	17870
60°	15471	19482	20526	16431	17109
65°	14098	17605	18470	15432	16365
70°	12792	15727	16468	14240	15271
75°	11348	13909	14233	12761	13527
80°	9752	11792	11792	10486	10892
85°	8742	9551	8742	7300	6469

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 65°  
 Vertical Angle: 45°  
 Luminance: 47254 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.7	4.3
10°-20°	534.6	12.6
20°-30°	775.9	18.2
30°-40°	817.9	19.2
40°-50°	723.7	17.0
50°-60°	577.7	13.6
60°-70°	392.4	9.2
70°-80°	200.8	4.7
80°-90°	47.5	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°	1494.2	35.1
0°-40°	2312.1	54.3
0°-60°	3613.5	84.9
0°-90°	4254.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4254.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1928	1928	1928	1928	1928	
5°	2154	2073	1934	1756	1714	214
15°	2647	2405	1825	1388	1270	734
25°	2206	2469	1633	1086	1020	1000
35°	1201	1934	1341	872	846	777
45°	723	1145	1006	689	695	567
55°	508	659	687	518	538	456
65°	313	391	410	342	363	311
75°	154	189	193	173	184	164
85°	40	44	40	33	30	46
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°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	2039.6	2040.3	2041.8	2029.9	2028.5	2028.5	2018.1	2009.2	1998.8	1984.7	1986.2
5°	2153.7	2161.9	2164.8	2155.9	2142.6	2141.1	2128.5	2107.8	2088.5	2072.9	2061.8
7.5°	2285.6	2288.6	2282.7	2272.3	2263.4	2246.3	2225.6	2205.6	2175.9	2149.3	2130.0
10°	2439.8	2444.2	2431.6	2414.6	2400.5	2379.7	2345.7	2310.8	2268.6	2227.8	2195.2
12.5°	2556.9	2569.5	2552.4	2553.9	2527.2	2496.8	2454.6	2441.3	2377.5	2316.7	2281.2
15°	2647.3	2646.5	2648.0	2633.9	2616.2	2611.7	2568.7	2522.0	2438.3	2404.9	2347.1
17.5°	2633.9	2644.3	2650.3	2645.8	2642.8	2636.2	2617.6	2582.8	2536.9	2480.5	2411.6
20°	2536.1	2550.9	2553.2	2570.2	2579.8	2592.4	2597.6	2589.5	2563.5	2518.3	2460.5
22.5°	2384.9	2386.4	2394.6	2423.5	2447.2	2483.5	2502.8	2539.1	2533.2	2516.8	2470.9
25°	2205.6	2198.2	2224.1	2237.4	2285.6	2336.0	2372.3	2412.4	2447.9	2469.4	2455.3
27.5°	2007.0	1991.4	2030.7	2065.5	2099.6	2148.5	2203.4	2268.6	2318.2	2385.7	2402.0
30°	1741.6	1748.3	1785.4	1823.2	1882.4	1959.5	2023.3	2096.6	2175.9	2253.8	2307.9
32.5°	1455.6	1485.9	1506.0	1569.0	1619.4	1707.5	1808.3	1904.7	2008.4	2099.6	2190.8
35°	1200.6	1230.3	1262.9	1305.1	1378.5	1463.7	1554.9	1678.6	1813.5	1934.3	2033.6
37.5°	1039.1	1033.9	1053.9	1085.0	1148.0	1221.4	1329.6	1455.6	1617.1	1751.3	1884.7
40°	896.8	893.8	907.1	935.3	980.5	1030.9	1122.8	1230.3	1377.7	1551.2	1717.9
42.5°	798.9	801.9	807.8	825.6	853.0	892.3	955.3	1042.8	1174.7	1335.5	1517.8
45°	723.3	728.5	736.7	746.3	764.1	798.2	836.7	901.9	1008.7	1145.0	1321.4
47.5°	664.0	665.5	674.4	683.3	693.7	714.4	748.5	790.0	871.6	987.9	1145.8
50°	618.1	612.9	618.8	625.5	636.6	650.0	670.7	709.3	759.6	849.3	976.1
52.5°	561.8	563.3	568.4	569.9	579.6	592.9	611.4	635.1	679.6	744.8	843.4
55°	508.4	512.1	515.1	519.5	528.4	538.1	552.9	570.7	606.2	658.9	735.9
57.5°	458.0	459.5	461.7	471.4	476.5	485.4	500.3	516.6	540.3	581.0	641.8
60°	406.1	406.1	412.1	415.8	423.2	432.1	443.2	458.8	479.5	511.4	558.1
62.5°	358.7	358.0	359.4	366.1	371.3	379.5	390.6	403.2	422.4	449.9	486.2
65°	312.8	311.3	315.7	317.2	323.1	331.3	340.2	354.3	369.8	390.6	424.7
67.5°	266.8	269.0	272.0	275.0	277.9	287.6	293.5	303.9	317.2	335.0	358.7
70°	229.7	229.7	229.7	232.0	236.4	240.9	246.8	254.9	267.5	282.4	303.1
72.5°	188.2	191.2	194.2	192.0	197.9	200.1	207.5	211.2	223.1	231.2	249.0
75°	154.2	154.2	154.2	157.9	160.1	162.3	166.8	171.2	177.1	189.0	198.6
77.5°	121.5	120.8	121.5	122.3	125.2	128.2	129.7	133.4	139.3	145.3	154.2
80°	88.9	90.4	91.2	92.6	92.6	94.1	94.9	100.1	103.8	107.5	112.7
82.5°	63.7	63.7	63.7	63.7	64.5	65.2	67.4	68.2	68.9	71.9	75.6
85°	40.0	39.3	39.3	40.8	40.0	40.0	41.5	43.0	43.0	43.7	45.9
87.5°	19.3	19.3	20.0	19.3	19.3	20.0	20.0	19.3	20.0	20.8	21.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1991.4	1985.5	1981.8	1968.4	1956.6	1944.7	1941.0	1942.5	1926.2	1910.6	1903.9
5°	2055.9	2041.0	2027.0	2007.0	1983.2	1957.3	1944.0	1933.6	1907.6	1879.5	1863.2
7.5°	2114.4	2095.2	2070.0	2034.4	2001.8	1963.2	1939.5	1919.5	1883.2	1845.4	1822.4
10°	2167.0	2138.1	2103.3	2057.4	2015.1	1965.5	1930.6	1895.8	1851.3	1803.9	1774.2
12.5°	2212.2	2170.7	2136.7	2074.4	2022.5	1957.3	1914.3	1861.7	1814.3	1755.7	1726.8
15°	2289.3	2217.4	2152.2	2085.5	2024.0	1937.3	1891.3	1825.4	1763.9	1694.2	1660.9
17.5°	2346.4	2268.6	2167.8	2087.0	2018.8	1926.2	1860.2	1781.7	1712.0	1634.9	1590.4
20°	2393.8	2301.2	2190.8	2090.0	2004.0	1894.3	1820.9	1740.2	1654.9	1565.2	1516.3
22.5°	2422.0	2323.4	2214.5	2078.8	1974.3	1868.4	1771.3	1680.9	1594.2	1495.6	1443.7
25°	2423.5	2334.5	2218.9	2073.7	1950.6	1829.8	1718.7	1632.7	1528.2	1437.8	1362.9
27.5°	2399.0	2328.6	2216.7	2063.3	1923.2	1784.6	1663.8	1569.7	1459.3	1361.4	1286.6
30°	2344.9	2307.9	2199.6	2045.5	1889.1	1737.2	1600.8	1490.4	1380.7	1281.4	1204.3
32.5°	2261.2	2260.4	2168.5	2020.3	1852.8	1677.2	1534.9	1423.0	1298.4	1201.4	1128.7
35°	2146.3	2181.9	2121.8	1980.3	1805.4	1620.8	1468.2	1340.7	1214.7	1121.3	1052.4
37.5°	2000.3	2082.6	2058.8	1926.9	1744.6	1560.8	1394.8	1261.4	1140.6	1044.2	976.8
40°	1848.4	1961.0	1977.3	1863.9	1679.4	1488.9	1310.3	1177.6	1060.5	974.6	906.4
42.5°	1685.3	1821.7	1873.6	1788.3	1608.2	1413.3	1234.7	1096.1	980.5	897.5	838.9
45°	1499.3	1673.5	1754.2	1702.4	1527.5	1328.8	1145.0	1005.7	900.5	821.9	775.2
47.5°	1331.1	1520.0	1623.1	1598.6	1440.7	1243.6	1062.0	926.4	821.9	758.2	714.4
50°	1150.2	1345.9	1477.1	1483.0	1345.9	1151.0	968.6	842.7	748.5	690.0	655.9
52.5°	993.1	1177.6	1323.6	1361.4	1239.9	1054.6	884.9	759.6	679.6	627.0	597.3
55°	860.4	1018.3	1176.9	1234.7	1134.7	956.8	797.4	687.0	609.2	572.1	545.5
57.5°	734.5	873.0	1023.5	1084.3	1020.5	864.1	710.0	612.9	546.9	513.6	492.8
60°	638.8	742.6	873.0	949.4	896.0	760.4	630.0	538.8	486.9	458.0	438.7
62.5°	549.9	638.8	744.1	812.3	789.3	663.3	549.9	472.1	429.1	402.4	389.8
65°	468.4	541.0	626.2	690.7	671.5	574.4	478.8	409.8	374.3	352.8	341.7
67.5°	398.7	454.3	515.1	574.4	558.1	486.2	405.4	349.8	322.4	303.1	296.4
70°	333.5	373.5	426.1	471.4	458.8	402.4	341.7	295.7	272.7	257.2	250.5
72.5°	271.3	302.4	339.4	374.3	366.9	322.4	274.2	242.3	226.0	212.0	206.8
75°	214.2	239.4	263.8	288.3	286.1	249.8	220.1	193.4	179.4	168.2	166.0
77.5°	167.5	183.1	200.8	216.4	212.7	189.0	164.5	148.2	137.1	129.7	129.0
80°	120.8	129.0	140.8	151.2	146.0	137.1	118.6	107.5	100.1	92.6	89.7
82.5°	79.3	87.5	93.4	97.8	94.1	86.0	76.3	69.7	66.0	61.5	60.8
85°	45.9	50.4	53.4	54.8	53.4	48.2	43.0	40.0	36.3	34.1	33.4
87.5°	22.2	22.2	22.2	23.7	21.5	21.5	18.5	16.3	15.6	14.8	13.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1896.5	1892.1	1876.5	1868.4	1855.0	1842.4	1834.3	1838.0	1840.9	1839.5	1837.2
5°	1848.4	1834.3	1812.8	1794.3	1780.9	1756.5	1746.1	1740.9	1736.4	1731.3	1726.1
7.5°	1795.0	1775.0	1744.6	1720.9	1697.2	1666.0	1650.5	1641.6	1632.0	1620.8	1610.5
10°	1737.2	1706.1	1673.5	1636.4	1606.8	1579.3	1554.9	1538.6	1523.7	1509.7	1499.3
12.5°	1676.4	1639.4	1597.1	1543.0	1509.7	1467.4	1468.9	1437.0	1411.8	1404.4	1391.8
15°	1611.2	1560.8	1509.7	1449.6	1423.7	1388.1	1365.9	1343.7	1323.6	1309.6	1305.9
17.5°	1540.1	1472.6	1423.0	1378.5	1336.2	1299.9	1280.7	1262.9	1245.8	1225.1	1224.3
20°	1456.3	1400.0	1344.4	1306.6	1262.9	1225.8	1200.6	1182.8	1168.7	1157.6	1148.0
22.5°	1377.0	1314.0	1264.4	1222.1	1179.1	1151.0	1132.4	1115.4	1104.3	1091.7	1082.8
25°	1291.0	1242.9	1187.3	1140.6	1105.0	1085.7	1069.4	1054.6	1047.2	1039.1	1028.7
27.5°	1217.7	1164.3	1109.5	1073.1	1040.5	1023.5	1010.9	999.8	993.1	987.9	981.2
30°	1139.1	1085.0	1044.2	1008.7	982.7	965.7	958.3	952.3	944.2	941.2	938.3
32.5°	1063.5	1016.1	982.7	953.1	928.6	919.0	912.3	907.1	901.2	898.2	891.6
35°	993.1	952.3	918.3	901.2	881.2	871.6	866.4	859.0	853.0	850.1	849.3
37.5°	925.7	888.6	865.6	842.7	833.0	827.8	820.4	815.2	813.0	812.3	811.5
40°	860.4	831.5	811.5	793.7	790.0	781.1	775.2	770.8	770.8	771.5	770.8
42.5°	801.2	776.0	758.9	744.1	739.6	735.2	729.3	730.0	731.5	734.5	731.5
45°	741.1	722.6	710.0	702.6	694.4	689.2	688.5	690.7	691.5	692.2	694.4
47.5°	684.8	672.9	661.1	652.2	648.5	647.7	646.3	650.0	653.7	654.4	658.1
50°	635.9	621.8	612.2	607.0	604.0	602.5	604.0	608.5	611.4	615.1	617.4
52.5°	581.0	572.1	566.2	562.5	561.8	563.3	563.3	568.4	573.6	574.4	575.1
55°	531.4	524.0	522.5	515.8	518.8	518.0	521.7	524.7	529.2	533.6	534.3
57.5°	481.0	474.3	469.9	470.6	471.4	474.3	477.3	482.5	487.7	492.8	492.8
60°	430.6	427.6	425.4	425.4	426.9	431.3	435.0	440.2	443.2	446.2	448.4
62.5°	384.6	381.7	379.5	380.9	385.4	387.6	392.1	394.3	397.2	400.2	400.9
65°	335.7	334.2	336.5	338.0	338.7	342.4	347.6	349.8	352.8	354.3	359.4
67.5°	291.3	291.3	290.5	292.7	297.2	297.9	303.1	309.0	309.0	312.0	315.7
70°	246.1	247.5	249.0	250.5	254.2	255.7	259.4	261.6	264.6	266.8	269.0
72.5°	204.5	204.5	206.0	205.3	208.3	212.0	214.9	217.1	220.1	223.1	225.3
75°	163.8	163.8	165.3	166.0	169.7	173.4	172.7	174.2	177.1	180.1	181.6
77.5°	126.7	125.2	126.7	127.5	129.0	131.9	132.7	134.9	138.6	137.8	139.3
80°	91.2	88.9	91.2	91.9	91.9	95.6	95.6	97.1	99.3	97.1	99.3
82.5°	58.5	57.8	59.3	59.3	60.8	60.0	61.5	61.5	63.7	63.0	63.7
85°	32.6	31.9	32.6	31.9	32.6	33.4	33.4	32.6	32.6	34.1	31.9
87.5°	12.6	11.9	11.1	11.1	10.4	9.6	8.9	8.9	8.9	7.4	7.4
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: P242298

CATALOG NUMBER: S122DRP-S1005D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1928.4	1928.4	1928.4	1928.4
2.5°	1829.8	1828.3	1828.3	1821.7
5°	1715.7	1713.5	1709.8	1713.5
7.5°	1607.5	1597.9	1596.4	1589.0
10°	1486.7	1480.8	1480.0	1465.9
12.5°	1394.8	1378.5	1382.2	1375.5
15°	1285.8	1285.8	1282.9	1270.3
17.5°	1208.0	1207.3	1200.6	1205.1
20°	1139.8	1135.4	1126.5	1126.5
22.5°	1075.4	1076.1	1066.5	1070.2
25°	1027.9	1022.0	1017.6	1019.8
27.5°	979.0	976.8	976.1	969.4
30°	937.5	930.1	931.6	927.9
32.5°	890.1	888.6	886.4	883.4
35°	847.8	848.6	844.9	846.4
37.5°	810.0	813.0	810.8	810.8
40°	773.0	773.0	773.0	775.2
42.5°	737.4	735.9	734.5	733.7
45°	695.9	698.1	698.9	695.2
47.5°	659.6	660.3	659.6	664.0
50°	621.1	619.6	621.1	619.6
52.5°	580.3	581.0	579.6	579.6
55°	537.3	538.8	538.1	538.1
57.5°	493.6	494.3	495.8	492.1
60°	447.6	451.3	450.6	449.1
62.5°	405.4	406.1	406.1	406.1
65°	361.7	363.1	360.9	363.1
67.5°	314.2	315.0	316.5	317.2
70°	270.5	269.8	272.0	274.2
72.5°	224.6	226.8	225.3	226.8
75°	180.1	182.3	181.6	183.8
77.5°	137.8	138.6	138.6	139.3
80°	99.3	97.8	96.3	99.3
82.5°	61.5	63.0	61.5	60.8
85°	31.9	31.1	29.6	29.6
87.5°	7.4	6.7	6.7	5.9
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242298  
 CATALOG NUMBER: S122DRP-S1005D835-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	20.82	22.33	21.18	22.65	22.96	24.07	25.59	24.44	25.90	26.21
	3H	22.22	23.58	22.60	23.91	24.27	25.08	26.44	25.46	26.77	27.13
	4H	22.73	24.00	23.13	24.35	24.73	25.40	26.67	25.80	27.02	27.40
	6H	23.08	24.26	23.49	24.63	25.02	25.59	26.77	26.01	27.14	27.53
	8H	23.19	24.32	23.62	24.71	25.11	25.64	26.76	26.06	27.15	27.55
	12H	23.27	24.34	23.70	24.72	25.15	25.65	26.73	26.09	27.11	27.54
4H	2H	21.68	22.95	22.08	23.30	23.68	24.28	25.56	24.68	25.91	26.28
	3H	23.23	24.29	23.64	24.69	25.09	25.62	26.68	26.03	27.08	27.48
	4H	23.82	24.78	24.25	25.19	25.63	26.13	27.08	26.56	27.50	27.94
	6H	24.27	25.10	24.73	25.54	26.00	26.46	27.29	26.92	27.73	28.19
	8H	24.41	25.18	24.87	25.63	26.09	26.54	27.31	27.00	27.76	28.22
	12H	24.51	25.20	24.99	25.68	26.15	26.58	27.27	27.06	27.75	28.22
8H	4H	24.26	25.03	24.72	25.47	25.94	26.25	27.03	26.72	27.47	27.94
	6H	24.79	25.43	25.29	25.92	26.40	26.69	27.33	27.19	27.82	28.30
	8H	24.98	25.55	25.50	26.06	26.55	26.83	27.40	27.34	27.91	28.40
	12H	25.14	25.65	25.65	26.14	26.70	26.92	27.42	27.43	27.92	28.48
12H	4H	24.31	25.00	24.79	25.48	25.95	26.25	26.94	26.73	27.42	27.89
	6H	24.87	25.44	25.38	25.95	26.44	26.69	27.27	27.21	27.78	28.27
	8H	25.11	25.62	25.62	26.11	26.67	26.87	27.38	27.38	27.87	28.44