

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: P242642

Luminaire Tested: S124DRP-S1195D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DRP-S1195D835-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

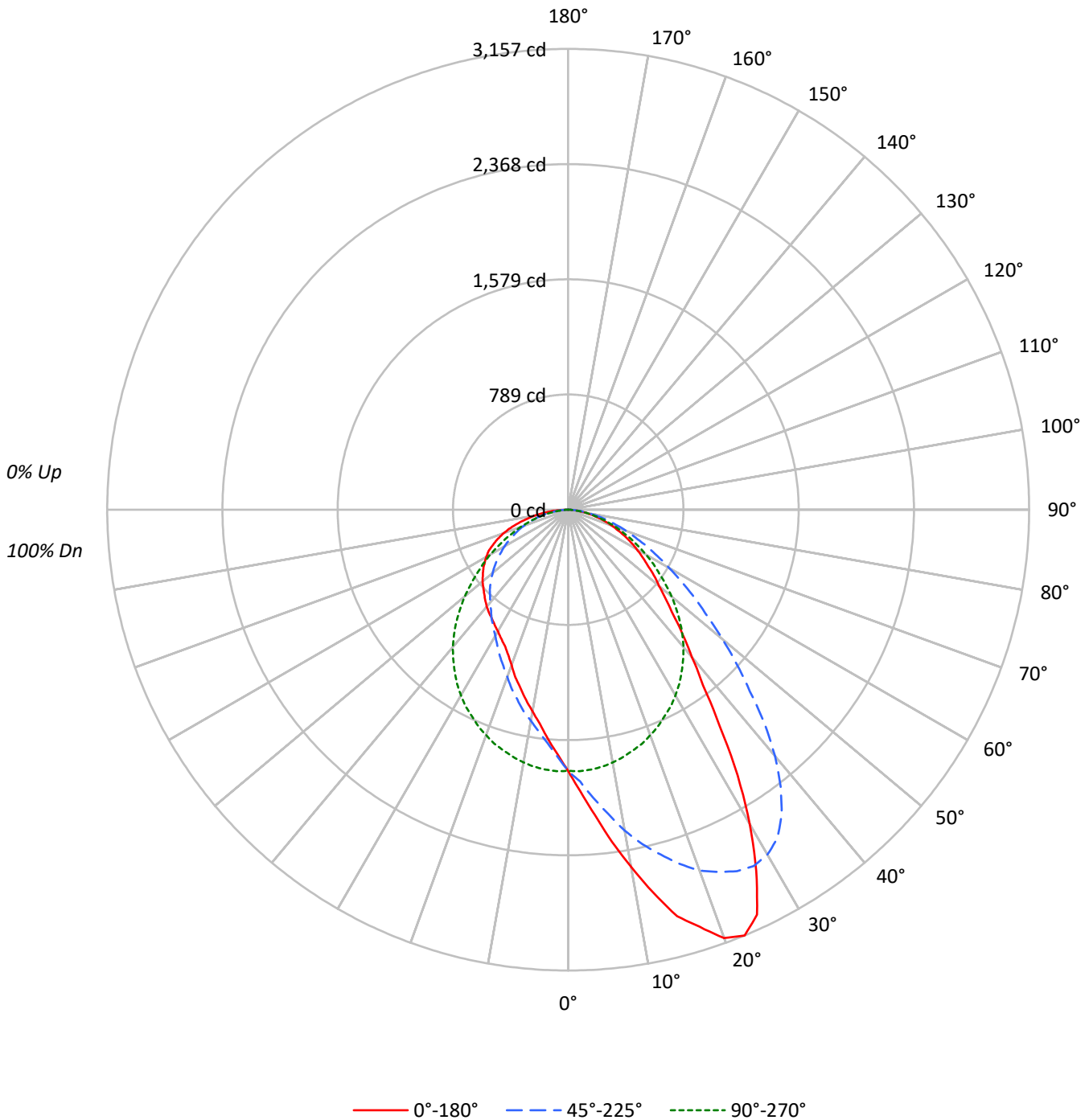
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4936.3 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41  
Luminous Opening: Rectangular (W 3.88' x L: 0.31' 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62					62			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46					46			
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36					36			
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

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

	0°	45°	90°	135°	180°
0°	15901	15901	15901	15901	15901
5°	18726	17688	15942	14328	14070
10°	22421	20153	15872	13257	12668
15°	26528	22511	15712	12384	11634
20°	29540	24885	15547	11524	10711
25°	30017	26797	15306	10851	10074
30°	25541	28005	15075	10246	9873
35°	19637	27654	14699	9915	9875
40°	15306	25556	14256	9639	10060
45°	12762	22115	13592	9520	10229
50°	11232	19071	12779	9345	10576
55°	10290	16412	11806	9176	11002
60°	9643	14201	10935	8946	11515
65°	8977	12407	9959	8651	11938
70°	8205	10960	8995	8415	12210
75°	7329	9441	7916	7865	12065
80°	6143	7663	6486	7172	11681
85°	4539	5824	4681	6650	11188

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 24416 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.1	3.5
10°-20°	537.4	10.9
20°-30°	853.7	17.3
30°-40°	948.6	19.2
40°-50°	862.7	17.5
50°-60°	704.9	14.3
60°-70°	503.2	10.2
70°-80°	276.9	5.6
80°-90°	74.8	1.5
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°	1565.2	31.7
0°-40°	2513.7	50.9
0°-60°	4081.3	82.7
0°-90°	4936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4936.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1789	1789	1789	1789	1789	
5°	2099	1982	1787	1606	1577	212
15°	2883	2446	1707	1346	1264	815
25°	3060	2732	1561	1106	1027	1358
35°	1810	2548	1355	914	910	1146
45°	1015	1759	1081	757	814	798
55°	664	1059	762	592	710	599
65°	427	590	474	411	568	422
75°	213	275	230	229	351	227
85°	44	57	46	65	110	55
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°	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9
2.5°	1932.6	1931.9	1924.5	1923.0	1917.8	1911.2	1909.7	1897.8	1874.1	1863.0	1860.0
5°	2098.6	2113.5	2094.2	2090.5	2088.3	2063.8	2051.2	2036.4	2002.3	1982.3	1966.7
7.5°	2292.8	2293.5	2285.4	2277.2	2263.1	2242.4	2214.2	2181.6	2142.4	2102.3	2074.2
10°	2484.0	2489.9	2480.3	2478.8	2441.0	2417.3	2369.9	2329.8	2283.9	2232.8	2186.1
12.5°	2685.5	2673.7	2670.0	2630.7	2631.4	2583.3	2526.2	2484.7	2407.6	2346.9	2280.9
15°	2882.7	2866.4	2856.0	2812.3	2790.8	2730.7	2672.2	2627.0	2534.4	2446.2	2379.5
17.5°	2996.8	3016.8	2990.1	2972.3	2913.8	2874.5	2816.0	2723.3	2654.4	2544.7	2468.4
20°	3122.8	3124.2	3110.9	3092.4	3048.7	2995.3	2930.1	2826.3	2739.6	2630.7	2515.1
22.5°	3156.8	3156.8	3153.1	3136.1	3105.7	3065.0	2999.0	2916.7	2807.1	2686.3	2570.7
25°	3060.5	3057.5	3064.2	3083.5	3070.9	3057.5	3019.8	2955.3	2857.5	2732.2	2607.7
27.5°	2787.8	2807.1	2847.1	2894.5	2928.6	2959.0	2956.8	2929.3	2859.7	2751.5	2618.8
30°	2488.4	2513.6	2541.8	2589.2	2681.1	2733.7	2791.5	2835.2	2810.8	2728.5	2607.0
32.5°	2159.4	2160.9	2206.1	2261.7	2343.9	2457.3	2557.3	2657.4	2700.4	2667.0	2570.7
35°	1809.6	1820.0	1865.2	1918.6	2021.6	2145.3	2283.2	2406.2	2507.7	2548.4	2496.6
37.5°	1516.2	1548.8	1582.9	1643.6	1737.7	1849.6	1997.9	2151.2	2300.2	2390.6	2400.2
40°	1319.1	1337.6	1360.6	1404.3	1481.3	1591.0	1714.0	1896.3	2057.1	2202.4	2249.8
42.5°	1163.4	1172.3	1184.2	1222.7	1276.8	1385.8	1495.4	1650.3	1811.9	1992.7	2080.1
45°	1015.2	1026.3	1050.1	1073.0	1117.5	1193.1	1297.6	1429.5	1591.8	1759.2	1906.0
47.5°	904.1	911.5	926.3	951.5	991.5	1042.6	1131.6	1243.5	1402.1	1564.3	1721.4
50°	812.2	818.1	829.2	851.5	880.4	924.8	994.5	1097.5	1215.3	1379.1	1532.5
52.5°	739.6	741.0	748.5	761.8	783.3	818.9	872.9	953.7	1061.2	1202.7	1355.4
55°	664.0	666.9	674.3	685.5	705.5	729.2	772.9	836.6	932.2	1059.0	1191.6
57.5°	601.7	604.7	610.6	615.1	632.9	652.9	688.4	734.4	809.2	921.9	1042.6
60°	542.4	541.0	548.4	552.1	563.2	579.5	605.4	649.2	712.1	798.8	907.8
62.5°	484.6	482.4	488.3	493.5	498.7	512.1	532.1	563.9	612.1	688.4	778.8
65°	426.8	423.9	427.6	433.5	439.4	446.8	462.4	492.8	533.6	589.9	661.8
67.5°	367.6	371.3	371.3	375.0	378.7	389.0	400.2	423.9	452.8	498.7	562.5
70°	315.7	316.4	319.4	319.4	321.6	330.5	339.4	352.0	380.2	421.7	471.3
72.5°	263.8	267.5	265.3	268.3	269.7	274.9	280.9	292.7	315.7	343.8	383.9
75°	213.4	215.6	215.6	216.4	218.6	220.8	226.0	234.9	252.0	274.9	303.8
77.5°	164.5	164.5	166.0	169.0	169.0	172.7	177.1	183.8	193.4	210.5	229.0
80°	120.0	121.5	120.8	122.3	122.3	125.2	126.7	135.6	139.3	149.7	163.8
82.5°	80.0	81.5	81.5	83.7	85.2	85.2	87.4	89.7	93.4	102.3	106.0
85°	44.5	45.9	44.5	45.9	48.2	48.9	51.1	51.9	54.8	57.1	62.2
87.5°	16.3	18.5	18.5	19.3	20.7	21.5	22.2	21.5	24.5	25.2	28.2
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°	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9
2.5°	1860.8	1850.4	1843.0	1837.0	1820.7	1811.1	1803.7	1793.3	1781.5	1768.9	1753.3
5°	1951.2	1926.0	1907.4	1879.3	1852.6	1830.4	1807.4	1786.7	1761.5	1734.0	1714.0
7.5°	2043.8	2009.0	1962.3	1926.0	1882.2	1844.5	1811.1	1776.3	1739.2	1703.7	1670.3
10°	2131.2	2083.1	2029.7	1966.7	1907.4	1854.8	1805.9	1758.5	1712.6	1666.6	1627.3
12.5°	2225.4	2162.4	2077.1	2000.8	1932.6	1857.8	1796.3	1735.5	1677.7	1628.8	1581.4
15°	2307.6	2220.9	2129.8	2031.2	1943.8	1861.5	1780.7	1707.4	1645.1	1581.4	1536.9
17.5°	2359.5	2252.0	2154.2	2051.2	1950.4	1847.4	1763.7	1681.4	1604.4	1542.1	1486.5
20°	2410.6	2303.9	2174.2	2071.2	1945.2	1838.5	1737.7	1643.6	1562.1	1494.7	1436.9
22.5°	2455.1	2327.6	2197.9	2054.2	1928.9	1814.1	1701.4	1606.6	1522.8	1451.0	1396.1
25°	2465.5	2323.9	2183.1	2048.2	1906.0	1771.8	1671.8	1560.6	1471.7	1396.9	1337.6
27.5°	2469.2	2319.5	2163.1	2016.4	1869.7	1747.4	1617.0	1519.9	1428.0	1348.7	1292.4
30°	2461.0	2303.2	2132.0	1969.7	1822.2	1686.6	1576.9	1468.7	1374.6	1296.1	1236.8
32.5°	2435.1	2269.1	2092.0	1917.8	1763.7	1631.8	1517.7	1416.1	1325.0	1247.9	1184.9
35°	2380.2	2217.9	2030.5	1851.9	1695.5	1561.4	1459.1	1354.6	1262.7	1189.4	1129.3
37.5°	2306.9	2155.7	1965.2	1779.2	1628.8	1492.5	1389.5	1293.1	1210.1	1134.5	1072.3
40°	2204.6	2075.7	1884.5	1704.4	1538.4	1410.2	1315.4	1228.6	1146.4	1076.0	1017.5
42.5°	2086.8	1978.6	1805.9	1612.5	1453.9	1325.0	1233.1	1157.5	1081.2	1017.5	958.9
45°	1942.3	1868.2	1702.2	1525.8	1359.1	1237.5	1149.4	1081.2	1016.0	952.2	903.3
47.5°	1781.5	1740.0	1595.5	1426.5	1266.4	1144.9	1068.6	1003.4	944.1	888.5	844.8
50°	1619.2	1601.4	1480.6	1319.1	1167.9	1055.2	978.2	924.1	875.2	827.7	787.0
52.5°	1459.1	1462.8	1356.9	1212.3	1075.3	967.8	891.5	841.8	801.1	764.8	729.2
55°	1295.3	1316.1	1230.9	1099.0	973.7	875.9	807.0	761.8	732.2	700.3	672.9
57.5°	1144.9	1179.7	1105.6	984.8	878.9	785.5	724.7	689.9	657.3	636.6	615.1
60°	998.2	1030.8	976.0	878.1	779.6	702.5	645.4	615.1	587.6	574.3	560.2
62.5°	867.8	895.9	858.9	769.9	687.7	614.3	568.4	539.5	523.2	508.4	500.2
65°	744.7	769.2	734.4	668.4	595.1	535.8	496.5	473.5	455.7	449.8	439.4
67.5°	623.2	645.4	626.9	569.1	506.9	460.2	429.1	404.6	394.2	388.3	381.6
70°	517.2	539.5	519.5	470.6	425.4	387.6	358.7	346.1	335.0	332.7	322.4
72.5°	427.6	440.9	420.9	385.3	348.3	317.9	297.2	283.8	279.4	274.9	270.5
75°	334.2	347.5	334.2	304.6	277.2	254.9	235.7	230.5	223.8	221.6	217.9
77.5°	250.5	263.1	252.7	232.7	211.2	192.7	181.6	174.1	173.4	169.0	170.4
80°	180.8	188.2	178.6	166.0	149.7	137.8	130.4	126.7	122.3	120.8	123.8
82.5°	117.1	119.3	115.6	108.2	97.1	90.4	86.0	81.5	81.5	82.3	81.5
85°	67.4	66.7	66.0	58.5	54.8	49.6	46.7	45.9	45.2	46.7	48.2
87.5°	28.2	28.9	28.2	25.2	23.0	20.7	20.0	19.3	20.0	20.7	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9
2.5°	1745.9	1739.2	1729.6	1716.3	1705.1	1693.3	1690.3	1685.9	1694.8	1687.4	1685.1
5°	1697.0	1681.4	1661.4	1638.4	1625.1	1605.8	1602.1	1594.7	1587.3	1586.6	1579.2
7.5°	1645.9	1624.4	1599.2	1575.5	1554.7	1534.0	1520.6	1519.1	1507.3	1501.4	1493.9
10°	1596.9	1568.8	1538.4	1516.2	1491.0	1468.7	1453.2	1444.3	1436.9	1428.7	1421.3
12.5°	1539.1	1508.8	1485.1	1460.6	1429.5	1413.9	1385.8	1368.7	1368.7	1370.9	1348.7
15°	1496.9	1467.3	1428.7	1394.6	1378.3	1345.7	1331.7	1313.9	1302.8	1291.6	1282.7
17.5°	1445.0	1408.7	1379.1	1340.5	1310.2	1285.7	1266.4	1256.8	1239.0	1222.7	1211.6
20°	1396.9	1357.6	1325.7	1284.2	1250.1	1218.3	1202.7	1187.9	1175.3	1162.0	1149.4
22.5°	1348.0	1306.5	1265.7	1225.7	1194.6	1160.5	1145.7	1124.2	1112.3	1106.4	1093.8
25°	1296.1	1251.6	1207.2	1168.6	1136.0	1106.4	1086.4	1070.8	1057.5	1051.5	1043.4
27.5°	1239.8	1196.0	1153.8	1109.3	1071.5	1050.1	1033.8	1021.2	1013.0	1004.1	1000.4
30°	1186.4	1140.5	1094.5	1053.8	1019.7	998.2	983.4	975.2	969.3	965.6	961.9
32.5°	1132.3	1087.1	1038.2	1001.9	972.2	953.7	943.3	935.2	933.0	932.2	931.5
35°	1073.8	1027.8	983.4	950.0	921.1	913.7	904.1	899.6	898.1	903.3	905.6
37.5°	1017.5	974.5	933.0	899.6	880.4	868.5	864.8	864.1	869.2	873.7	878.9
40°	963.4	921.9	883.3	855.2	837.4	830.7	829.2	832.9	838.9	844.0	850.0
42.5°	910.7	870.0	835.9	810.0	798.8	792.9	794.4	798.1	807.0	813.7	823.3
45°	855.9	821.8	787.7	766.2	755.9	757.3	757.3	764.0	772.2	781.8	791.4
47.5°	804.8	769.9	741.0	722.5	717.3	715.1	718.8	727.7	738.8	749.9	763.3
50°	752.9	720.3	695.8	679.5	673.6	675.8	681.8	689.9	704.0	718.8	732.9
52.5°	700.3	671.4	649.2	634.3	630.6	635.1	641.0	655.1	666.9	683.2	701.0
55°	645.4	620.3	602.5	591.4	589.9	592.1	598.8	612.8	630.6	650.6	666.9
57.5°	591.4	569.9	552.8	544.7	545.4	546.9	557.3	574.3	592.1	613.6	634.3
60°	536.5	517.2	503.9	498.0	498.7	503.2	516.5	532.1	555.8	576.5	598.8
62.5°	484.6	468.3	455.7	450.6	449.1	460.2	472.8	489.1	512.8	536.5	561.0
65°	428.3	415.0	404.6	401.6	403.9	411.3	427.6	449.1	469.1	493.5	518.7
67.5°	373.5	362.4	355.0	356.4	358.7	369.0	383.1	401.6	423.9	449.1	475.0
70°	321.6	311.2	305.3	306.1	310.5	323.8	335.7	354.2	378.7	404.6	425.4
72.5°	268.3	262.3	257.1	260.8	265.3	273.4	289.0	307.5	328.3	352.0	374.2
75°	214.2	214.2	211.2	213.4	220.1	229.0	240.1	259.4	280.9	300.1	317.9
77.5°	168.2	166.0	167.5	169.7	174.1	185.3	197.9	211.9	229.0	249.0	263.8
80°	121.5	122.3	126.0	130.4	131.9	140.1	153.4	166.0	178.6	194.9	209.0
82.5°	83.7	84.5	86.0	91.9	93.4	102.3	109.7	122.3	133.4	143.0	154.1
85°	49.6	49.6	53.4	55.6	59.3	65.2	70.4	77.8	88.2	95.6	106.7
87.5°	23.7	23.7	26.7	28.2	30.4	34.1	35.6	43.7	46.7	50.4	57.1
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: P242642

CATALOG NUMBER: S124DRP-S1195D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1788.9	1788.9	1788.9	1788.9
2.5°	1683.7	1682.2	1677.0	1676.2
5°	1574.7	1571.0	1568.8	1576.9
7.5°	1492.5	1489.5	1482.8	1480.6
10°	1413.9	1410.9	1405.0	1403.5
12.5°	1338.3	1331.7	1331.7	1333.9
15°	1273.1	1270.1	1262.0	1264.2
17.5°	1206.4	1203.5	1192.3	1203.5
20°	1144.2	1138.2	1133.1	1132.3
22.5°	1084.9	1079.7	1080.4	1074.5
25°	1037.5	1032.3	1030.8	1027.1
27.5°	998.9	996.0	993.0	994.5
30°	964.1	963.4	961.9	961.9
32.5°	935.2	935.2	936.7	936.7
35°	908.5	910.7	912.2	910.0
37.5°	884.8	886.3	888.5	890.7
40°	856.6	861.8	863.3	867.0
42.5°	830.0	835.9	840.3	840.3
45°	802.5	808.5	813.7	813.7
47.5°	774.4	782.5	787.7	788.5
50°	745.5	755.9	761.1	764.8
52.5°	717.3	727.7	735.1	736.6
55°	684.0	698.8	707.0	709.9
57.5°	654.3	667.7	676.6	678.8
60°	618.8	633.6	645.4	647.7
62.5°	582.5	598.0	608.4	615.1
65°	539.5	555.0	565.4	567.6
67.5°	494.3	510.6	517.2	521.7
70°	446.1	458.7	466.1	469.8
72.5°	391.3	404.6	413.5	413.5
75°	335.0	346.8	351.3	351.3
77.5°	276.4	283.1	289.0	290.5
80°	220.1	223.8	228.2	228.2
82.5°	162.3	165.3	169.7	169.0
85°	105.2	111.9	111.2	109.7
87.5°	59.3	60.0	62.2	63.7
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242642  
 CATALOG NUMBER: S124DRP-S1195D835-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	19.58	21.14	19.94	21.45	21.77	20.49	22.05	20.85	22.37	22.68
	3H	21.06	22.47	21.44	22.80	23.16	21.86	23.26	22.23	23.59	23.95
	4H	21.60	22.92	22.00	23.27	23.65	22.33	23.65	22.73	24.00	24.38
	6H	21.96	23.18	22.37	23.55	23.94	22.64	23.86	23.05	24.22	24.62
	8H	22.06	23.23	22.49	23.62	24.02	22.72	23.88	23.14	24.27	24.67
	12H	22.12	23.23	22.55	23.61	24.04	22.76	23.87	23.19	24.26	24.68
4H	2H	20.74	22.06	21.14	22.41	22.79	21.18	22.50	21.57	22.85	23.22
	3H	22.27	23.37	22.68	23.77	24.17	22.88	23.99	23.29	24.38	24.78
	4H	22.86	23.85	23.29	24.27	24.70	23.47	24.47	23.90	24.88	25.32
	6H	23.28	24.15	23.74	24.59	25.05	23.87	24.74	24.33	25.18	25.64
	8H	23.41	24.22	23.87	24.66	25.13	23.97	24.79	24.44	25.23	25.70
	12H	23.48	24.21	23.96	24.69	25.16	24.04	24.76	24.52	25.24	25.71
8H	4H	23.31	24.12	23.77	24.57	25.03	23.79	24.60	24.25	25.04	25.51
	6H	23.82	24.49	24.31	24.98	25.46	24.31	24.99	24.81	25.48	25.95
	8H	23.99	24.59	24.50	25.10	25.59	24.48	25.08	24.99	25.59	26.08
	12H	24.11	24.64	24.62	25.14	25.70	24.59	25.12	25.10	25.62	26.18
12H	4H	23.36	24.09	23.84	24.56	25.03	23.82	24.55	24.30	25.02	25.49
	6H	23.89	24.50	24.40	25.00	25.49	24.37	24.98	24.88	25.48	25.97
	8H	24.11	24.65	24.62	25.14	25.70	24.59	25.13	25.10	25.62	26.18