

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: P243777

Luminaire Tested: S125RDRP-H1270D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H1270D835-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

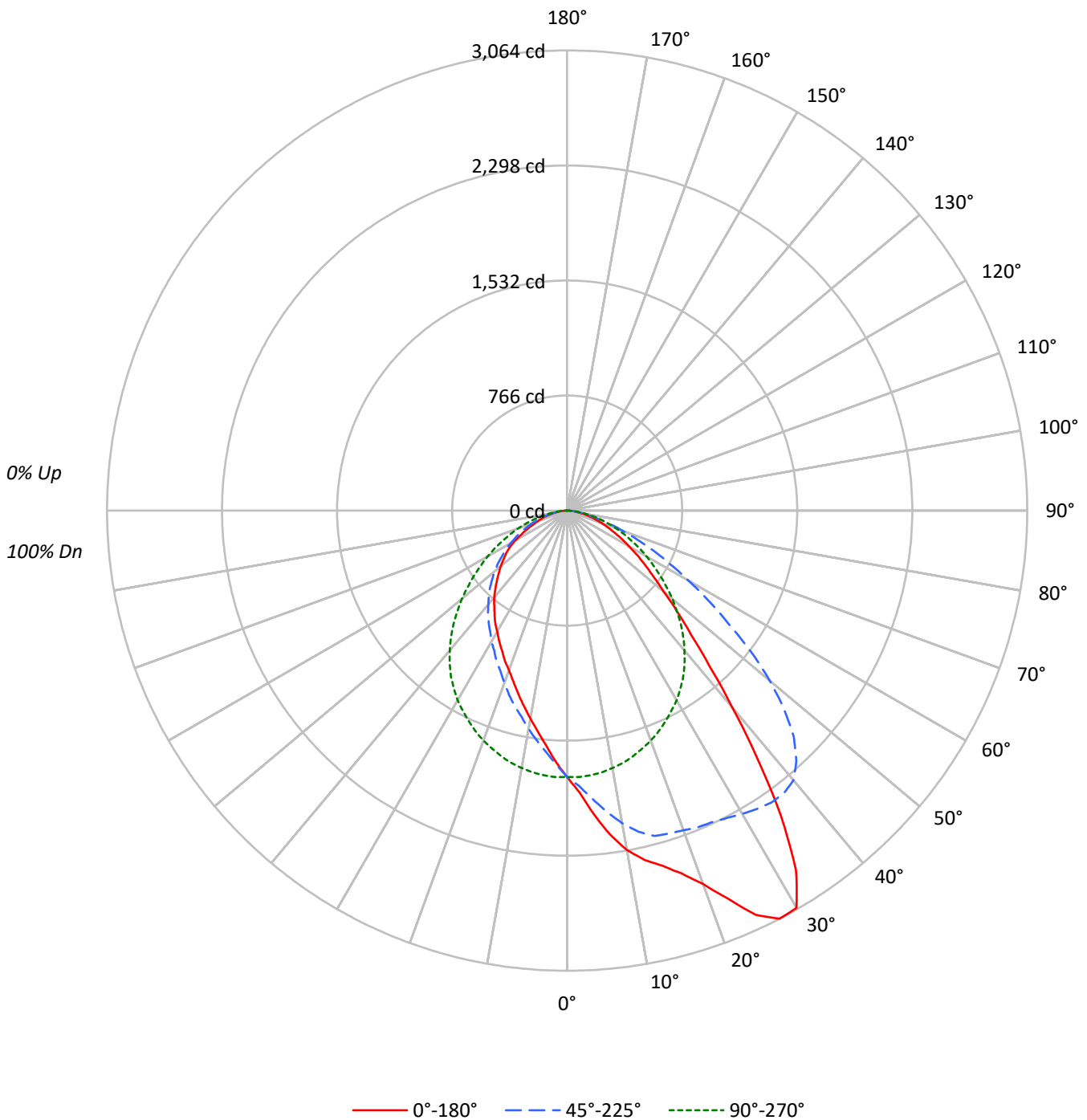
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4720.4 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5  
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.7  
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	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	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75				73	
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65				63	
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56				54	
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50				48	
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44				42	
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39				37	
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35				33	
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32				30	
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29				27	

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

	0°	45°	90°	135°	180°
0°	12606	12606	12606	12606	12606
5°	14471	13748	12624	11510	11229
10°	16556	15252	12562	10654	10151
15°	18008	16503	12461	9920	9284
20°	20011	17134	12319	9234	8554
25°	23286	17947	12144	8703	8052
30°	25073	19133	11965	8254	7641
35°	21540	20582	11698	7896	7310
40°	15869	21748	11276	7575	7008
45°	11720	21455	10752	7295	6645
50°	9285	19471	10109	6991	6377
55°	7844	16252	9368	6562	6135
60°	6758	13277	8677	6158	5679
65°	5866	10716	7901	5654	4944
70°	5145	8140	7234	5114	4326
75°	4364	5929	6335	4520	4094
80°	3397	4289	5296	3974	3397
85°	2985	3156	4240	3384	3099

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 21455 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.7	3.6
10°-20°	505.1	10.7
20°-30°	805.6	17.1
30°-40°	978.2	20.7
40°-50°	881.4	18.7
50°-60°	677.8	14.4
60°-70°	439.9	9.3
70°-80°	211.6	4.5
80°-90°	50.1	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°	1481.4	31.4
0°-40°	2459.6	52.1
0°-60°	4018.8	85.1
0°-90°	4720.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4720.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1774	1774	1774	1774	1774	
5°	2028	1927	1770	1613	1574	202
15°	2447	2243	1694	1348	1262	702
25°	2969	2288	1549	1110	1027	1358
35°	2483	2372	1348	910	842	1519
45°	1166	2134	1070	726	661	926
55°	633	1312	756	530	495	574
65°	349	637	470	336	294	350
75°	159	216	231	165	149	171
85°	37	39	52	42	38	42
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°	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7
2.5°	1876.4	1883.4	1877.8	1881.3	1875.7	1872.8	1865.8	1855.3	1844.7	1834.9	1834.2
5°	2028.3	2026.9	2021.2	2013.5	2007.9	1993.8	1986.8	1962.9	1946.7	1927.0	1917.1
7.5°	2173.1	2169.6	2161.2	2150.6	2145.7	2127.4	2107.7	2077.5	2052.2	2021.2	1998.0
10°	2294.1	2293.4	2287.1	2280.0	2261.1	2240.7	2221.7	2190.0	2152.0	2113.4	2081.0
12.5°	2382.7	2379.2	2371.5	2359.5	2344.0	2330.0	2304.7	2275.8	2229.4	2190.0	2145.7
15°	2447.4	2446.0	2434.8	2430.5	2400.3	2380.6	2346.9	2318.0	2282.2	2242.8	2194.9
17.5°	2533.2	2536.0	2526.2	2502.3	2474.9	2444.6	2396.8	2349.7	2299.7	2254.0	2215.3
20°	2645.7	2638.7	2621.8	2593.0	2543.8	2506.5	2458.7	2400.3	2332.8	2265.3	2209.7
22.5°	2796.3	2788.5	2761.8	2726.6	2664.7	2596.5	2523.4	2436.2	2358.8	2281.4	2208.3
25°	2969.3	2954.5	2915.1	2877.1	2789.2	2716.8	2607.8	2503.7	2391.2	2288.5	2206.2
27.5°	3063.5	3063.5	3045.2	3003.7	2934.1	2827.2	2716.1	2577.5	2447.4	2306.8	2190.0
30°	3055.1	3050.1	3057.2	3039.6	2994.6	2914.4	2804.0	2658.4	2492.4	2331.4	2191.4
32.5°	2837.0	2839.2	2881.3	2910.2	2932.7	2913.0	2841.3	2709.7	2544.5	2355.3	2185.8
35°	2482.6	2488.2	2562.8	2612.0	2712.6	2770.2	2787.1	2716.1	2567.7	2372.2	2176.0
37.5°	2077.5	2077.5	2164.0	2238.5	2351.1	2493.1	2599.3	2626.1	2553.6	2371.5	2167.5
40°	1710.4	1708.3	1776.5	1867.9	1988.2	2145.0	2303.3	2439.0	2456.6	2344.0	2138.0
42.5°	1399.5	1396.0	1470.6	1521.2	1647.8	1787.7	1998.0	2190.0	2299.7	2258.9	2094.4
45°	1166.0	1163.2	1211.8	1269.4	1358.7	1504.3	1680.8	1893.9	2078.2	2134.5	2012.8
47.5°	990.2	991.6	1017.6	1066.2	1142.1	1246.2	1404.5	1602.1	1829.9	1960.0	1910.1
50°	839.7	844.6	864.3	900.9	956.5	1040.2	1175.9	1354.5	1588.7	1761.0	1771.6
52.5°	727.2	734.2	755.3	775.0	821.4	880.5	986.0	1140.7	1334.1	1540.9	1614.7
55°	633.0	636.5	648.4	669.5	704.0	753.2	829.9	948.0	1127.4	1311.6	1441.7
57.5°	554.2	554.2	561.9	576.7	604.1	648.4	699.8	797.5	948.7	1115.4	1254.0
60°	475.4	478.2	483.9	500.0	518.3	552.1	602.0	663.9	794.7	934.0	1083.1
62.5°	409.3	414.2	419.9	427.6	444.5	468.4	503.6	560.5	648.4	777.1	910.0
65°	348.8	353.8	354.5	363.6	374.8	394.5	421.3	462.8	535.9	637.2	746.9
67.5°	295.4	297.5	299.6	306.6	317.2	329.8	347.4	378.4	436.0	504.3	611.2
70°	247.6	249.0	249.7	257.4	262.3	273.6	282.7	302.4	339.0	391.7	474.7
72.5°	202.5	200.4	199.7	206.1	208.2	217.3	228.6	242.6	262.3	299.6	361.5
75°	158.9	159.6	160.3	163.9	164.6	168.8	175.8	185.0	194.1	215.9	255.3
77.5°	122.4	119.6	119.6	123.8	125.2	125.9	130.8	135.7	140.7	153.3	168.8
80°	83.0	84.4	84.4	84.4	85.1	86.5	89.3	93.5	97.1	104.8	107.6
82.5°	59.1	59.1	58.4	59.8	60.5	61.2	61.2	61.2	63.3	65.4	68.2
85°	36.6	37.3	35.2	36.6	37.3	37.3	37.3	37.3	39.4	38.7	39.4
87.5°	15.5	16.2	16.2	16.9	16.9	17.6	16.9	17.6	16.9	16.9	17.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7
2.5°	1832.1	1823.6	1819.4	1811.0	1799.7	1792.7	1785.6	1775.8	1768.1	1756.1	1745.5
5°	1899.6	1882.7	1867.2	1846.1	1825.7	1808.1	1789.9	1769.5	1751.2	1730.8	1709.0
7.5°	1974.8	1948.1	1915.7	1878.5	1846.8	1819.4	1788.4	1758.2	1730.8	1698.4	1668.9
10°	2047.3	2004.4	1961.5	1911.5	1865.1	1824.3	1782.8	1740.6	1704.8	1664.7	1628.1
12.5°	2103.5	2062.7	1998.7	1936.8	1876.4	1823.6	1771.6	1720.2	1673.1	1628.8	1585.2
15°	2152.7	2085.2	2031.1	1963.6	1889.7	1818.0	1753.3	1693.5	1636.5	1584.5	1540.2
17.5°	2166.8	2106.3	2047.3	1968.5	1889.0	1807.4	1732.9	1661.9	1598.6	1540.9	1491.0
20°	2165.4	2104.2	2040.2	1965.0	1880.6	1791.3	1708.3	1628.8	1557.1	1491.0	1437.5
22.5°	2144.3	2085.2	2020.5	1944.6	1858.8	1766.6	1679.4	1591.5	1513.5	1444.5	1389.7
25°	2121.8	2047.3	1979.7	1903.1	1821.5	1736.4	1643.6	1548.6	1467.0	1395.3	1333.4
27.5°	2102.1	2012.8	1929.8	1854.6	1770.9	1694.2	1602.1	1502.9	1419.2	1344.0	1280.0
30°	2070.5	1976.2	1875.7	1793.4	1712.5	1632.3	1547.9	1457.9	1366.5	1289.8	1225.8
32.5°	2043.0	1924.2	1815.2	1722.3	1641.5	1571.1	1490.3	1403.8	1314.4	1241.3	1172.4
35°	2012.8	1870.7	1756.8	1647.8	1566.9	1490.3	1426.3	1348.2	1259.6	1182.2	1120.3
37.5°	1976.9	1815.9	1685.1	1573.9	1490.3	1411.5	1353.8	1284.2	1204.0	1127.4	1066.2
40°	1936.8	1759.6	1609.1	1494.5	1404.5	1325.7	1277.2	1215.3	1147.1	1071.1	1014.1
42.5°	1886.2	1699.8	1540.2	1415.0	1315.1	1244.1	1195.6	1144.2	1081.6	1015.5	953.7
45°	1822.2	1625.3	1457.9	1325.7	1227.2	1158.3	1107.7	1069.7	1019.8	957.9	899.5
47.5°	1744.1	1547.2	1373.5	1236.4	1141.4	1075.3	1028.2	990.2	952.2	898.8	843.2
50°	1640.8	1457.9	1291.2	1151.3	1050.7	986.7	944.5	914.3	879.8	836.2	785.6
52.5°	1526.8	1357.3	1194.2	1063.4	966.3	902.3	858.7	833.4	807.4	771.5	727.9
55°	1394.6	1256.8	1101.3	973.3	878.4	815.1	780.6	756.0	734.2	706.8	670.2
57.5°	1254.7	1133.7	998.7	880.5	791.2	731.4	701.2	680.8	662.5	642.8	612.6
60°	1107.7	1021.9	893.9	785.6	707.5	658.3	629.4	610.4	593.6	577.4	554.9
62.5°	954.4	883.3	787.7	695.5	625.9	579.5	558.4	542.2	524.6	510.6	494.4
65°	798.9	758.1	692.0	605.5	541.5	503.6	483.2	469.8	461.4	445.2	432.5
67.5°	657.6	635.1	578.8	520.4	471.2	436.7	417.7	407.9	398.8	391.0	377.0
70°	523.2	507.1	474.7	433.2	394.5	365.0	350.9	348.1	335.5	327.7	320.7
72.5°	398.8	394.5	367.8	349.5	327.7	304.5	294.0	288.3	279.9	272.9	270.1
75°	283.4	289.8	281.3	272.2	261.6	242.6	233.5	230.7	222.9	220.8	217.3
77.5°	193.4	202.5	205.4	201.1	196.2	189.9	183.6	180.7	173.0	171.6	169.5
80°	121.7	135.0	140.0	139.2	137.1	137.8	130.1	129.4	125.9	123.8	125.9
82.5°	73.8	80.9	90.0	92.1	89.3	90.7	88.6	85.8	85.8	87.2	84.4
85°	40.1	40.8	45.0	47.8	51.3	54.2	51.3	52.0	51.3	51.3	49.2
87.5°	17.6	18.3	18.3	17.6	19.0	20.4	23.2	24.6	23.9	21.8	19.0
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°	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7
2.5°	1737.1	1732.2	1723.7	1716.7	1700.5	1689.3	1687.9	1688.6	1687.2	1685.8	1685.1
5°	1694.9	1678.7	1663.3	1649.9	1631.6	1613.3	1604.9	1601.4	1600.0	1592.2	1596.5
7.5°	1649.9	1625.3	1607.0	1581.7	1559.9	1544.4	1529.6	1522.6	1521.2	1510.7	1507.8
10°	1602.1	1572.5	1545.1	1519.8	1498.0	1476.2	1458.6	1452.3	1443.8	1435.4	1422.7
12.5°	1555.0	1518.4	1488.1	1460.0	1430.5	1405.9	1391.8	1382.7	1372.1	1364.4	1360.1
15°	1498.7	1467.8	1430.5	1400.2	1370.0	1348.2	1329.2	1312.3	1302.5	1296.1	1278.6
17.5°	1448.1	1407.3	1372.1	1343.3	1310.2	1285.6	1265.9	1251.8	1235.0	1222.3	1211.1
20°	1393.9	1351.7	1319.4	1284.9	1251.1	1220.9	1196.3	1185.0	1173.1	1161.1	1154.8
22.5°	1335.5	1299.0	1262.4	1226.5	1190.7	1158.3	1142.8	1126.7	1116.1	1104.2	1095.7
25°	1284.9	1244.8	1208.2	1168.2	1128.8	1109.8	1088.7	1072.5	1064.1	1052.1	1043.0
27.5°	1230.7	1192.1	1148.5	1107.0	1083.8	1051.4	1037.3	1024.7	1013.4	1001.5	995.1
30°	1180.1	1135.1	1091.5	1059.1	1028.9	1005.7	992.3	976.9	961.4	955.8	947.3
32.5°	1126.7	1078.1	1040.2	1007.8	982.5	954.4	941.7	929.0	914.3	907.2	899.5
35°	1071.1	1024.0	986.7	957.2	931.1	910.0	896.0	882.6	873.5	862.9	857.3
37.5°	1012.7	971.9	936.1	906.5	882.6	865.7	848.2	837.6	825.0	815.1	810.9
40°	957.2	920.6	886.1	858.7	836.9	816.5	801.0	787.7	779.9	771.5	764.5
42.5°	907.2	869.3	839.7	810.9	791.2	771.5	756.0	746.2	732.8	729.3	719.5
45°	853.8	818.6	789.1	762.4	742.0	725.8	707.5	695.5	687.1	678.7	675.2
47.5°	799.6	767.3	739.9	715.2	694.1	675.9	661.8	649.1	640.0	632.3	628.0
50°	746.9	718.8	691.3	667.4	645.6	632.3	615.4	601.3	594.3	585.8	580.9
52.5°	691.3	668.1	638.6	618.2	597.8	580.2	563.3	554.2	547.2	540.1	536.6
55°	639.3	614.7	589.4	567.5	547.9	529.6	516.2	509.2	500.0	495.8	495.1
57.5°	585.8	560.5	539.4	519.7	497.2	483.2	471.2	462.8	455.0	451.5	451.5
60°	527.5	507.1	487.4	465.6	449.4	433.2	420.6	414.9	407.2	405.8	400.9
62.5°	474.0	455.0	436.0	415.6	400.9	384.7	375.6	367.8	363.6	358.0	352.3
65°	418.5	401.6	383.3	365.7	353.8	336.2	327.7	318.6	313.7	307.3	300.3
67.5°	365.0	348.8	331.9	315.8	305.9	289.0	283.4	272.2	268.7	261.6	255.3
70°	308.7	297.5	284.1	268.0	259.5	246.1	240.5	230.0	224.3	220.1	216.6
72.5°	260.2	249.7	234.2	223.6	213.1	204.7	195.5	190.6	185.7	182.2	181.4
75°	212.4	199.0	189.9	180.0	173.0	164.6	160.3	156.8	154.7	152.6	150.5
77.5°	162.5	156.8	147.7	137.8	132.2	128.7	125.9	124.5	122.4	121.7	119.6
80°	121.0	113.2	107.6	104.1	99.9	97.1	94.9	90.0	87.2	85.8	84.4
82.5°	80.2	78.1	73.8	70.3	66.8	66.1	64.0	62.6	61.9	61.9	61.2
85°	48.5	42.9	42.9	42.2	42.2	41.5	40.1	40.1	38.7	40.8	40.8
87.5°	19.7	19.7	18.3	18.3	19.0	17.6	16.9	16.9	16.9	16.2	16.9
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: P243777

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1773.7	1773.7	1773.7	1773.7
2.5°	1685.1	1681.5	1682.3	1678.0
5°	1588.7	1586.6	1579.6	1573.9
7.5°	1500.8	1491.7	1491.0	1485.3
10°	1418.5	1410.1	1405.9	1406.6
12.5°	1346.8	1337.6	1337.6	1332.0
15°	1270.1	1261.0	1262.4	1261.7
17.5°	1206.8	1200.5	1195.6	1191.4
20°	1144.9	1137.2	1134.4	1130.9
22.5°	1088.0	1082.4	1083.1	1083.1
25°	1033.8	1034.5	1028.2	1026.8
27.5°	986.0	984.6	983.2	980.4
30°	941.0	935.4	934.0	931.1
32.5°	894.6	893.9	888.2	890.4
35°	847.5	845.3	843.9	842.5
37.5°	803.9	799.6	798.9	797.5
40°	759.5	758.1	751.8	755.3
42.5°	711.7	708.9	708.9	708.9
45°	671.6	663.9	663.9	661.1
47.5°	626.6	623.8	622.4	617.5
50°	582.3	578.1	576.7	576.7
52.5°	536.6	535.9	537.3	534.5
55°	496.5	497.2	496.5	495.1
57.5°	452.9	449.4	449.4	450.1
60°	400.9	400.9	402.3	399.5
62.5°	350.9	349.5	344.6	343.2
65°	299.6	294.0	293.3	294.0
67.5°	253.9	251.8	248.3	249.0
70°	214.5	213.8	210.3	208.2
72.5°	179.3	179.3	177.2	177.2
75°	149.8	148.4	147.7	149.1
77.5°	115.3	111.8	113.2	111.1
80°	83.7	85.1	83.7	83.0
82.5°	61.9	60.5	61.2	60.5
85°	39.4	38.0	38.7	38.0
87.5°	16.2	16.9	16.9	15.5
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243777

CATALOG NUMBER: S125RDRP-H1270D835-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	18.73	20.27	19.09	20.58	20.89	19.42	20.96	19.79	21.28	21.59
	3H	19.81	21.19	20.19	21.52	21.88	20.90	22.28	21.28	22.61	22.97
	4H	20.17	21.46	20.57	21.81	22.19	21.42	22.72	21.82	23.07	23.45
	6H	20.38	21.58	20.80	21.95	22.34	21.78	22.98	22.19	23.34	23.74
	8H	20.44	21.58	20.87	21.97	22.37	21.88	23.02	22.31	23.41	23.81
	12H	20.48	21.57	20.91	21.95	22.38	21.94	23.03	22.37	23.41	23.84
4H	2H	20.25	21.54	20.65	21.89	22.27	20.30	21.59	20.70	21.94	22.32
	3H	21.29	22.37	21.70	22.77	23.17	21.96	23.03	22.37	23.43	23.83
	4H	21.65	22.62	22.09	23.04	23.47	22.56	23.52	22.99	23.94	24.38
	6H	21.90	22.74	22.36	23.18	23.64	22.99	23.83	23.45	24.27	24.73
	8H	21.96	22.75	22.42	23.19	23.66	23.11	23.90	23.58	24.34	24.81
	12H	22.01	22.71	22.49	23.19	23.66	23.20	23.90	23.68	24.38	24.85
8H	4H	22.01	22.80	22.48	23.24	23.71	22.71	23.49	23.17	23.94	24.40
	6H	22.31	22.96	22.80	23.45	23.92	23.23	23.88	23.73	24.37	24.85
	8H	22.40	22.98	22.92	23.49	23.98	23.41	23.99	23.92	24.50	24.99
	12H	22.49	23.00	23.00	23.49	24.06	23.55	24.06	24.06	24.55	25.12
12H	4H	22.04	22.74	22.52	23.22	23.69	22.70	23.40	23.18	23.88	24.35
	6H	22.34	22.92	22.85	23.43	23.92	23.22	23.81	23.74	24.32	24.80
	8H	22.47	22.99	22.98	23.48	24.04	23.44	23.96	23.95	24.45	25.01