

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: P242912

Luminaire Tested: S125RDRP-S1270D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D830-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

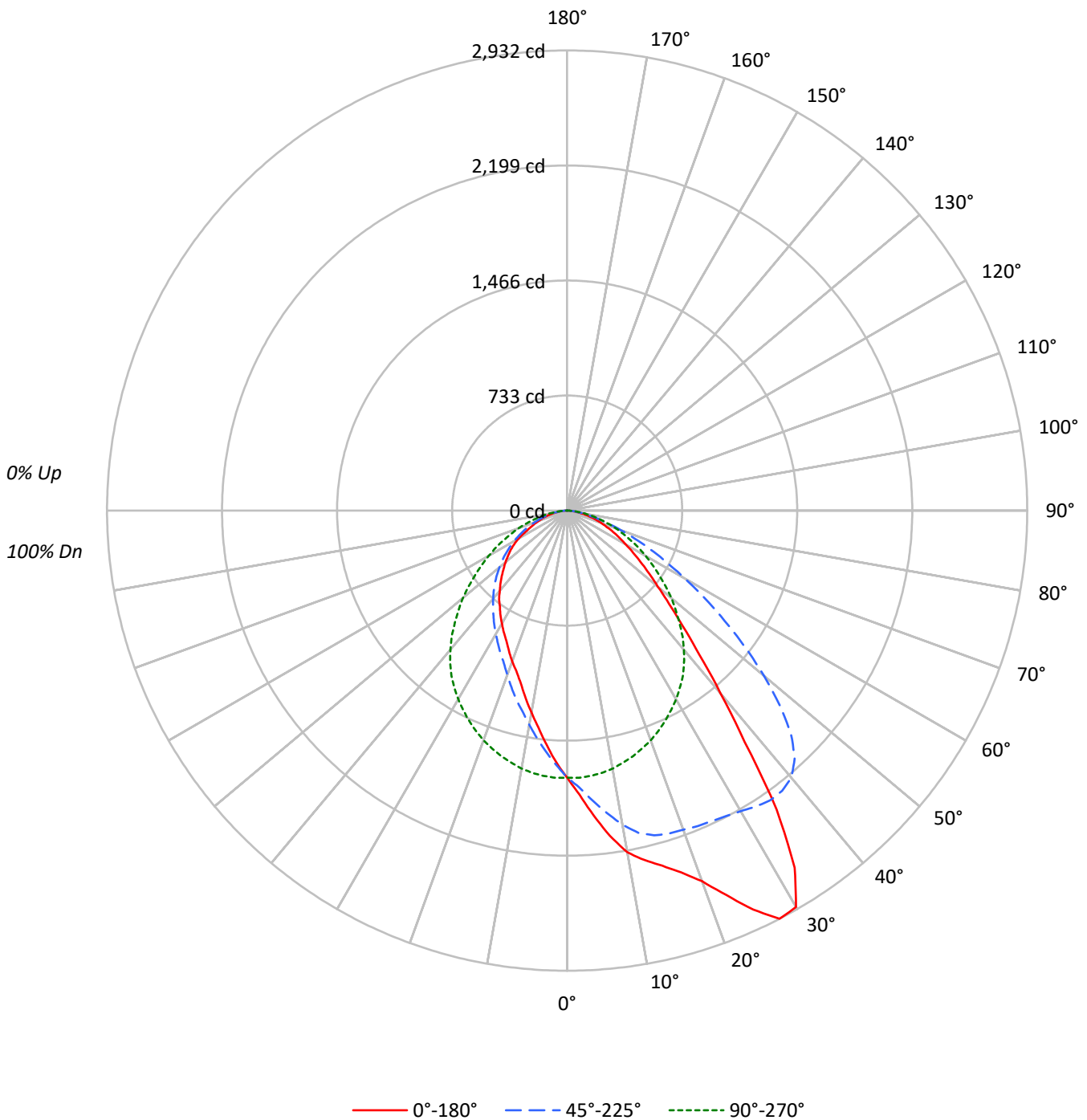
Lumens per Lamp: N/A
Luminaire Lumens: 4408.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): 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	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	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57					55				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44					42				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39					37				
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35					34				
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12092	12092	12092	12092	12092
5°	13912	13224	12109	11002	10693
10°	15958	14668	12047	10001	9435
15°	17236	15762	11922	9184	8387
20°	19006	16365	11780	8431	7744
25°	21995	17116	11590	7881	7186
30°	23936	18147	11389	7445	6821
35°	20191	19561	11156	7102	6484
40°	14101	20619	10737	6804	6195
45°	10459	20288	10172	6521	5911
50°	8340	18078	9583	6216	5668
55°	7079	15179	8854	5902	5452
60°	6115	12300	8200	5539	5103
65°	5451	9820	7494	5133	4393
70°	4790	7533	6866	4659	4006
75°	4144	5618	5945	4144	3759
80°	3143	4032	5002	3688	3143
85°	2618	2846	3931	3131	2960

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 20288 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.7
10°-20°	478.3	10.9
20°-30°	758.4	17.2
30°-40°	916.5	20.8
40°-50°	816.1	18.5
50°-60°	625.8	14.2
60°-70°	406.4	9.2
70°-80°	197.2	4.5
80°-90°	46.4	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°	1399.9	31.8
0°-40°	2316.3	52.5
0°-60°	3758.2	85.3
0°-90°	4408.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1701	1701	1701	1701	1701	
5°	1950	1854	1697	1542	1499	194
15°	2342	2142	1620	1248	1140	670
25°	2805	2183	1478	1005	916	1291
35°	2327	2254	1286	818	747	1411
45°	1041	2018	1012	649	588	825
55°	571	1225	714	476	440	517
65°	324	584	446	305	261	322
75°	151	205	216	151	137	160
85°	32	35	48	38	36	38
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°	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3
2.5°	1811.7	1810.3	1813.1	1805.4	1806.1	1794.2	1794.2	1785.2	1773.3	1764.2	1760.0
5°	1950.0	1951.4	1948.6	1938.1	1931.1	1920.7	1908.8	1887.8	1870.4	1853.6	1840.3
7.5°	2091.1	2092.5	2083.4	2081.3	2063.1	2052.0	2025.4	1998.2	1974.4	1943.0	1920.7
10°	2211.2	2210.5	2200.7	2193.0	2177.7	2158.1	2132.3	2098.7	2067.3	2032.4	1998.9
12.5°	2281.0	2278.9	2277.5	2267.8	2253.8	2237.0	2216.1	2183.3	2142.7	2103.6	2063.1
15°	2342.5	2337.6	2328.5	2316.7	2296.4	2276.1	2251.7	2222.4	2185.4	2142.1	2105.7
17.5°	2416.5	2417.2	2403.3	2390.7	2364.1	2330.6	2294.3	2249.6	2202.1	2158.1	2121.8
20°	2512.9	2510.8	2496.8	2464.7	2433.3	2388.6	2345.3	2287.3	2225.9	2163.7	2115.5
22.5°	2651.2	2644.9	2630.2	2585.5	2532.5	2471.7	2399.8	2325.7	2248.2	2175.6	2108.5
25°	2804.8	2800.7	2772.0	2723.1	2654.7	2566.0	2479.4	2382.3	2275.4	2182.6	2105.7
27.5°	2932.0	2923.6	2897.7	2851.6	2784.6	2688.9	2569.5	2443.8	2316.7	2194.4	2089.0
30°	2916.6	2927.1	2924.3	2905.4	2857.9	2774.1	2665.9	2519.9	2361.4	2211.2	2079.2
32.5°	2697.3	2706.4	2737.8	2788.8	2804.2	2783.2	2709.2	2577.2	2411.6	2235.6	2071.5
35°	2327.1	2339.7	2387.2	2461.9	2559.7	2641.4	2658.2	2585.5	2438.2	2254.5	2063.8
37.5°	1856.4	1938.1	1970.2	2046.4	2200.0	2348.8	2478.0	2507.3	2427.7	2250.3	2054.7
40°	1519.8	1536.5	1607.8	1696.5	1820.8	1977.2	2183.3	2332.0	2336.9	2222.4	2025.4
42.5°	1246.0	1268.3	1311.6	1378.0	1479.9	1636.4	1850.8	2058.9	2171.4	2145.5	1987.0
45°	1040.6	1056.7	1092.3	1146.8	1228.5	1357.7	1540.7	1767.7	1947.9	2018.4	1912.3
47.5°	880.0	888.4	921.2	965.2	1028.1	1125.9	1274.6	1479.9	1694.4	1837.5	1809.6
50°	754.3	764.1	787.8	819.2	870.2	949.8	1063.0	1227.1	1449.9	1635.0	1672.0
52.5°	656.5	664.2	676.8	706.1	745.9	802.5	888.4	1033.0	1227.8	1427.6	1525.3
55°	571.3	576.9	588.8	605.5	639.1	683.1	762.0	864.6	1026.7	1225.0	1350.7
57.5°	498.7	501.5	508.4	525.2	549.7	582.5	642.5	736.1	853.5	1039.9	1178.2
60°	430.2	433.0	442.8	453.3	471.4	500.8	545.5	606.2	718.0	865.3	1005.7
62.5°	375.7	377.1	379.9	390.4	405.8	426.7	459.6	506.4	589.5	714.5	845.1
65°	324.1	324.8	326.2	334.5	344.3	361.1	384.1	419.1	486.1	583.9	701.2
67.5°	272.4	273.8	278.7	281.5	293.3	301.7	316.4	344.3	396.0	465.8	560.8
70°	230.5	229.8	234.7	238.2	241.7	252.1	261.2	282.9	312.2	362.5	438.6
72.5°	191.4	189.3	190.7	191.4	196.3	202.5	211.6	222.8	243.7	274.5	328.3
75°	150.9	151.6	151.6	153.0	156.4	159.2	162.0	169.0	181.6	204.6	236.1
77.5°	113.1	111.7	115.2	115.2	118.0	121.5	123.6	126.4	131.3	141.8	160.6
80°	76.8	76.8	77.5	79.6	78.9	80.3	83.8	86.6	92.9	98.5	104.1
82.5°	54.5	53.8	54.5	54.5	54.5	55.9	56.6	56.6	58.0	60.1	63.6
85°	32.1	32.1	32.8	32.8	33.5	33.5	34.2	34.2	34.2	34.9	35.6
87.5°	15.4	14.7	14.0	14.0	14.7	16.1	15.4	14.7	14.7	14.7	15.4
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°	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3
2.5°	1760.0	1755.1	1746.0	1737.7	1727.2	1718.1	1711.8	1704.1	1694.4	1682.5	1672.7
5°	1825.7	1810.3	1790.0	1772.6	1750.2	1732.8	1714.6	1697.2	1679.7	1657.3	1637.8
7.5°	1898.3	1868.3	1840.3	1804.0	1771.2	1742.6	1714.6	1686.0	1658.7	1628.0	1599.4
10°	1964.0	1925.5	1882.9	1834.0	1789.3	1746.7	1707.6	1669.2	1628.7	1593.1	1554.7
12.5°	2025.4	1973.0	1922.7	1857.8	1801.9	1747.4	1695.1	1644.8	1600.8	1551.9	1510.0
15°	2057.5	2008.7	1954.2	1878.7	1804.0	1741.2	1682.5	1620.3	1566.6	1514.9	1468.8
17.5°	2076.4	2024.7	1961.9	1888.5	1808.2	1730.0	1656.0	1589.6	1528.1	1468.8	1417.8
20°	2068.0	2018.4	1953.5	1884.3	1797.0	1714.6	1632.9	1557.5	1486.9	1423.4	1368.2
22.5°	2047.8	1996.1	1933.9	1859.9	1778.2	1689.5	1600.8	1519.1	1444.3	1378.0	1316.5
25°	2027.5	1957.7	1893.4	1822.2	1743.3	1656.6	1566.6	1477.9	1398.9	1331.9	1266.2
27.5°	2008.0	1923.4	1843.8	1775.4	1690.9	1612.6	1524.6	1433.2	1350.7	1283.0	1215.9
30°	1979.3	1881.5	1791.4	1711.1	1632.2	1558.9	1476.5	1387.8	1302.6	1232.0	1163.6
32.5°	1943.7	1838.2	1737.0	1641.3	1565.9	1493.2	1420.6	1336.8	1254.4	1181.0	1111.2
35°	1915.1	1782.4	1674.8	1576.3	1491.8	1421.3	1354.2	1285.8	1202.7	1127.2	1059.5
37.5°	1875.3	1729.3	1607.8	1500.2	1412.2	1342.4	1288.6	1223.6	1146.1	1072.8	1009.9
40°	1839.6	1670.6	1534.4	1428.3	1334.7	1259.9	1210.4	1157.3	1088.1	1020.4	957.5
42.5°	1792.1	1616.8	1460.4	1348.6	1254.4	1183.1	1132.8	1088.1	1033.0	970.1	901.7
45°	1727.2	1544.2	1384.3	1265.5	1170.5	1100.0	1053.2	1012.0	968.0	909.3	850.7
47.5°	1649.7	1475.1	1306.7	1176.1	1084.6	1018.3	972.2	938.0	905.8	854.9	795.5
50°	1552.6	1385.7	1222.2	1096.5	997.3	935.2	892.6	866.7	838.1	792.7	745.2
52.5°	1438.0	1293.5	1134.2	1005.0	912.8	855.6	815.1	789.2	766.9	731.9	687.2
55°	1316.5	1185.9	1039.2	922.6	836.7	778.0	738.9	714.5	700.5	669.1	633.5
57.5°	1178.9	1078.4	945.7	831.8	754.3	695.6	666.3	644.6	628.6	605.5	579.0
60°	1033.7	968.0	852.1	745.2	675.4	620.2	594.4	576.9	562.2	543.4	523.8
62.5°	886.3	843.0	745.9	657.9	595.1	551.1	527.3	511.9	494.5	483.3	464.4
65°	757.8	715.2	645.3	573.4	514.0	477.0	459.6	445.6	435.1	421.1	407.9
67.5°	615.3	595.8	544.1	490.3	447.0	411.4	396.0	384.8	373.0	364.6	354.8
70°	486.1	477.7	443.5	410.7	370.9	348.5	334.5	330.4	315.0	306.6	300.3
72.5°	371.6	368.8	352.7	332.4	307.3	288.4	275.9	271.0	262.6	256.3	252.8
75°	270.3	271.7	268.2	253.5	243.0	230.5	219.3	216.5	209.5	203.9	200.4
77.5°	184.4	191.4	190.0	189.3	184.4	175.3	170.4	168.3	160.6	158.5	157.8
80°	117.3	125.0	132.0	131.3	129.9	127.8	124.3	122.2	118.7	116.6	115.2
82.5°	68.4	75.4	81.0	85.9	85.9	83.8	81.7	81.0	81.0	79.6	79.6
85°	37.0	38.4	40.5	45.4	48.9	49.6	48.9	48.2	46.1	46.8	47.5
87.5°	16.1	16.1	16.8	16.8	16.1	19.6	21.7	22.3	21.0	19.6	18.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3	1701.3
2.5°	1665.7	1656.0	1649.0	1635.0	1625.2	1621.0	1613.3	1611.3	1618.9	1613.3	1612.6
5°	1623.1	1602.9	1586.8	1570.7	1553.3	1542.1	1525.3	1522.6	1518.4	1512.1	1510.7
7.5°	1573.5	1548.4	1529.5	1503.0	1481.3	1463.9	1442.9	1434.6	1430.4	1422.7	1410.1
10°	1523.3	1491.8	1463.9	1437.3	1408.7	1385.7	1364.7	1348.6	1338.2	1328.4	1324.2
12.5°	1473.7	1441.5	1403.8	1370.3	1337.5	1310.9	1287.2	1278.1	1266.2	1254.4	1243.2
15°	1422.0	1379.4	1340.3	1303.2	1276.0	1248.1	1225.7	1210.4	1192.9	1188.0	1169.2
17.5°	1366.8	1327.0	1280.9	1241.1	1210.4	1181.0	1156.6	1138.4	1125.2	1106.3	1097.2
20°	1315.8	1266.2	1221.5	1185.9	1151.0	1114.7	1089.5	1074.9	1062.3	1047.6	1040.6
22.5°	1261.3	1213.2	1167.1	1123.8	1088.1	1052.5	1036.5	1021.1	1006.4	993.2	983.4
25°	1208.3	1159.4	1111.2	1067.9	1030.9	1005.0	984.1	966.6	958.9	945.7	935.9
27.5°	1155.2	1103.5	1054.6	1009.2	980.6	954.7	938.0	924.0	909.3	897.5	888.4
30°	1104.2	1051.1	996.6	962.4	931.7	907.2	888.4	875.1	864.6	854.2	847.9
32.5°	1053.2	998.0	951.2	913.5	884.9	864.6	845.1	832.5	821.3	809.5	801.8
35°	998.0	942.2	903.1	866.7	838.1	818.5	805.3	787.1	778.0	769.7	762.0
37.5°	948.5	895.4	852.1	820.6	794.1	775.2	757.8	748.7	736.8	729.8	723.6
40°	892.6	845.1	806.7	773.1	755.0	733.3	717.3	704.7	696.3	686.5	679.6
42.5°	842.3	799.0	762.0	732.6	708.9	691.4	676.1	663.5	652.3	646.0	640.4
45°	795.5	751.5	715.2	687.2	666.3	648.8	632.8	626.5	612.5	604.1	601.3
47.5°	746.6	706.8	671.2	645.3	623.7	607.6	592.3	578.3	571.3	562.9	558.7
50°	697.0	659.3	626.5	601.3	580.4	562.2	548.3	539.9	529.4	521.7	516.1
52.5°	647.4	613.2	580.4	556.6	539.2	521.0	505.0	496.6	486.8	482.6	479.1
55°	600.6	563.6	535.7	511.9	493.1	476.3	461.7	453.3	447.0	442.1	440.7
57.5°	546.9	516.8	490.3	469.3	449.1	433.0	419.7	412.1	406.5	405.8	400.9
60°	494.5	467.9	444.2	421.1	404.4	389.7	378.5	369.5	363.9	363.2	361.8
62.5°	442.1	417.0	395.3	375.7	361.1	347.1	336.6	326.2	323.4	319.2	315.7
65°	390.4	367.4	349.2	333.1	317.1	305.2	294.7	288.4	280.8	276.6	268.9
67.5°	339.4	320.6	303.1	289.8	276.6	264.7	255.6	246.5	241.0	237.5	231.2
70°	289.1	275.2	257.7	243.0	233.3	224.2	217.2	206.7	203.2	200.4	197.7
72.5°	241.7	229.8	215.8	204.6	194.9	186.5	178.1	174.6	171.1	168.3	166.9
75°	197.7	185.8	173.2	164.8	157.8	150.9	146.7	143.2	141.8	141.1	138.3
77.5°	153.7	146.7	136.2	128.5	123.6	120.8	116.6	115.2	115.9	112.4	111.7
80°	111.0	107.6	99.2	96.4	92.9	90.1	88.0	84.5	81.0	79.6	77.5
82.5°	75.4	71.9	69.8	65.0	62.2	60.8	58.7	58.0	59.4	57.3	56.6
85°	44.0	40.5	39.1	38.4	37.0	38.4	37.7	37.0	36.3	35.6	36.3
87.5°	17.5	17.5	16.8	18.2	16.1	16.8	16.8	16.1	16.1	16.1	15.4
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: P242912

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1701.3	1701.3	1701.3	1701.3
2.5°	1612.0	1604.3	1602.2	1605.0
5°	1503.7	1496.7	1500.2	1498.8
7.5°	1412.2	1403.1	1392.6	1395.4
10°	1315.1	1308.1	1303.9	1307.4
12.5°	1233.4	1229.9	1226.4	1223.6
15°	1160.8	1152.4	1148.9	1139.8
17.5°	1090.9	1088.1	1079.1	1072.8
20°	1030.2	1027.4	1018.3	1023.9
22.5°	979.9	972.9	971.5	968.0
25°	933.1	924.0	920.5	916.3
27.5°	885.6	880.7	875.8	874.4
30°	839.5	834.6	831.1	831.1
32.5°	798.3	794.8	791.3	790.6
35°	758.5	752.9	751.5	747.3
37.5°	716.6	711.7	711.7	712.4
40°	676.8	673.3	672.6	667.7
42.5°	634.2	632.8	630.0	628.6
45°	596.4	591.6	591.6	588.1
47.5°	556.6	552.4	553.1	549.0
50°	516.8	514.7	514.0	512.6
52.5°	477.0	476.3	479.8	476.3
55°	442.1	440.0	444.2	440.0
57.5°	400.9	399.5	403.7	400.9
60°	360.4	356.2	358.3	359.0
62.5°	312.2	310.1	311.5	307.3
65°	267.5	265.4	262.6	261.2
67.5°	232.6	226.3	226.3	227.7
70°	193.5	193.5	192.8	192.8
72.5°	166.2	165.5	164.1	163.4
75°	138.3	139.0	137.6	136.9
77.5°	108.3	104.8	106.2	104.8
80°	77.5	76.8	78.9	76.8
82.5°	57.3	56.6	57.3	55.9
85°	37.0	36.3	35.6	36.3
87.5°	16.1	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242912
 CATALOG NUMBER: S125RDRP-S1270D830-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	18.28	19.82	18.65	20.13	20.45	19.26	20.80	19.63	21.11	21.43
	3H	19.41	20.79	19.79	21.12	21.48	20.74	22.12	21.12	22.44	22.81
	4H	19.80	21.09	20.20	21.44	21.82	21.25	22.54	21.65	22.89	23.27
	6H	20.03	21.22	20.44	21.59	21.98	21.60	22.79	22.01	23.16	23.55
	8H	20.08	21.22	20.51	21.61	22.01	21.70	22.83	22.13	23.22	23.63
	12H	20.12	21.20	20.55	21.59	22.02	21.75	22.84	22.19	23.22	23.65
4H	2H	19.87	21.16	20.27	21.51	21.89	20.11	21.40	20.51	21.75	22.13
	3H	20.94	22.01	21.35	22.41	22.81	21.77	22.84	22.18	23.24	23.64
	4H	21.32	22.29	21.76	22.70	23.14	22.36	23.32	22.79	23.74	24.18
	6H	21.58	22.42	22.04	22.86	23.32	22.79	23.62	23.24	24.07	24.53
	8H	21.64	22.42	22.10	22.87	23.33	22.91	23.69	23.37	24.13	24.60
	12H	21.69	22.38	22.17	22.86	23.33	22.99	23.69	23.47	24.17	24.64
8H	4H	21.70	22.48	22.16	22.92	23.39	22.51	23.29	22.97	23.73	24.20
	6H	22.00	22.65	22.50	23.14	23.62	23.02	23.67	23.52	24.16	24.64
	8H	22.10	22.67	22.61	23.18	23.67	23.20	23.78	23.71	24.29	24.77
	12H	22.18	22.69	22.68	23.18	23.74	23.33	23.85	23.84	24.34	24.90
12H	4H	21.72	22.42	22.21	22.90	23.37	22.50	23.19	22.98	23.67	24.14
	6H	22.04	22.62	22.55	23.13	23.61	23.01	23.59	23.53	24.10	24.59
	8H	22.17	22.68	22.68	23.17	23.74	23.23	23.74	23.74	24.23	24.80