

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: P242765

Luminaire Tested: S124RDRP-S1195D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-S1195D940-X4F0-XX-UDD-A-W  
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

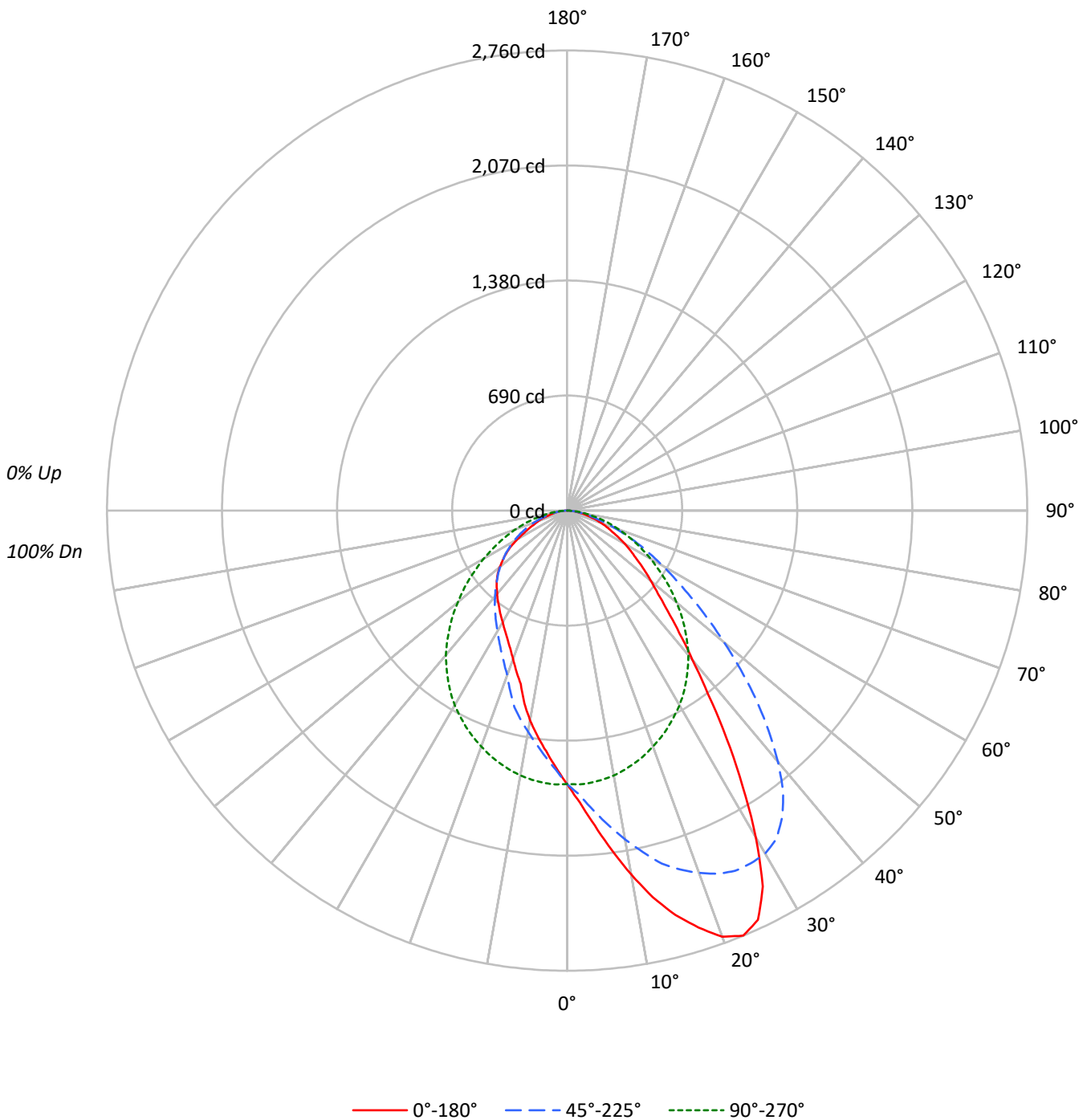
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4145.9 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39  
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

TEST NUMBER: P242765

CATALOG NUMBER: S124RDRP-S1195D940-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot





TEST NUMBER: P242765

CATALOG NUMBER: S124RDRP-S1195D940-X4F0-XX-UDD-A-W

**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	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50					48				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36					34				
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

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

	0°	45°	90°	135°	180°
0°	14579	14579	14579	14579	14579
5°	16911	16097	14623	13231	12925
10°	20004	18072	14559	12162	11535
15°	23107	20176	14424	11237	9912
20°	25728	21878	14239	9939	8964
25°	26559	23383	14058	9158	8322
30°	23250	24389	13836	8580	7935
35°	18098	24401	13509	8146	7701
40°	13572	22827	13134	7798	7576
45°	10715	20143	12534	7501	7510
50°	9047	16951	11843	7246	7292
55°	7885	14050	11081	6974	6903
60°	7095	11760	10292	6578	6108
65°	6255	9799	9437	6129	5254
70°	5632	7831	8553	5531	4740
75°	4719	6082	7580	4856	4039
80°	3993	4602	6460	4023	3788
85°	3366	3641	5059	3570	3366

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 21515 cd/sqm



TEST NUMBER: P242765

CATALOG NUMBER: S124RDRP-S1195D940-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.8	3.8
10°-20°	479.6	11.6
20°-30°	751.2	18.1
30°-40°	834.2	20.1
40°-50°	739.3	17.8
50°-60°	576.1	13.9
60°-70°	376.8	9.1
70°-80°	184.9	4.5
80°-90°	45.0	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°	1389.6	33.5
0°-40°	2223.8	53.6
0°-60°	3539.2	85.4
0°-90°	4145.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4145.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1640	1640	1640	1640	1640	
5°	1895	1804	1639	1483	1448	191
15°	2511	2192	1567	1221	1077	714
25°	2708	2384	1433	934	848	1209
35°	1668	2249	1245	751	710	1044
45°	852	1602	997	597	597	672
55°	509	907	715	450	445	462
65°	297	466	449	291	250	299
75°	137	177	221	141	118	151
85°	33	36	50	35	33	38
90°	0	0	0	0	0	



TEST NUMBER: P242765

CATALOG NUMBER: S124RDRP-S1195D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1
2.5°	1752.4	1758.4	1752.4	1751.8	1745.2	1743.2	1740.5	1731.9	1716.1	1706.8	1708.8
5°	1895.2	1911.7	1902.4	1901.1	1886.6	1872.0	1862.8	1841.6	1819.2	1804.0	1791.4
7.5°	2053.7	2063.7	2057.1	2049.8	2024.7	2016.7	1994.9	1969.8	1932.2	1903.7	1878.0
10°	2216.3	2224.2	2221.6	2204.4	2187.2	2152.2	2132.4	2093.4	2042.5	2002.2	1964.5
12.5°	2376.2	2384.8	2356.4	2361.7	2325.3	2299.6	2265.2	2213.7	2152.9	2098.0	2048.5
15°	2511.0	2500.4	2500.4	2487.2	2450.9	2412.6	2380.2	2328.6	2254.6	2192.5	2127.1
17.5°	2622.0	2626.7	2621.4	2587.7	2561.2	2522.3	2464.1	2405.3	2341.2	2257.9	2193.2
20°	2719.8	2719.8	2713.9	2692.7	2655.7	2613.4	2549.3	2483.9	2396.7	2312.8	2237.5
22.5°	2759.5	2762.1	2754.9	2738.3	2706.0	2665.0	2612.8	2546.0	2455.5	2358.4	2260.6
25°	2707.9	2720.5	2721.8	2717.2	2707.3	2682.2	2635.2	2567.2	2486.6	2384.1	2283.7
27.5°	2541.4	2557.9	2564.5	2579.1	2606.2	2616.1	2610.1	2564.5	2486.6	2385.5	2285.7
30°	2265.2	2278.4	2321.4	2377.5	2421.2	2460.8	2495.2	2504.4	2464.8	2376.2	2269.8
32.5°	1958.6	1977.8	2020.7	2082.2	2162.1	2236.1	2324.0	2370.9	2379.5	2335.2	2238.8
35°	1667.8	1681.1	1720.7	1784.1	1871.4	1971.1	2093.4	2188.6	2253.3	2248.7	2188.6
37.5°	1389.0	1407.5	1447.8	1500.0	1585.9	1713.4	1829.1	1956.6	2072.9	2129.7	2099.3
40°	1169.6	1170.3	1209.3	1263.4	1342.7	1450.4	1579.3	1724.7	1858.2	1967.2	1988.3
42.5°	996.5	996.5	1018.9	1078.4	1130.0	1229.7	1351.3	1495.4	1657.3	1787.4	1852.2
45°	852.4	858.4	879.5	914.5	959.5	1045.4	1143.8	1278.0	1453.1	1602.4	1695.6
47.5°	738.8	749.3	761.9	793.6	830.6	890.8	974.7	1100.2	1245.6	1411.5	1540.3
50°	654.2	655.5	672.7	688.5	719.6	765.2	836.6	937.0	1067.8	1225.8	1373.1
52.5°	581.5	580.8	589.4	610.6	634.4	667.4	721.6	810.8	923.1	1060.6	1213.9
55°	508.8	512.1	520.0	535.9	555.1	580.2	625.8	694.5	785.7	906.6	1044.7
57.5°	453.3	455.3	462.6	468.5	487.0	505.5	542.5	592.1	672.0	773.1	908.6
60°	399.1	399.8	401.8	411.7	425.6	442.7	465.9	506.2	570.9	661.5	763.2
62.5°	346.3	347.6	350.9	357.5	367.4	378.0	402.4	432.8	483.7	557.7	646.9
65°	297.4	298.0	302.6	305.3	313.9	324.5	342.3	364.1	401.1	465.9	535.2
67.5°	256.4	256.4	256.4	260.4	267.0	274.2	286.1	304.6	334.4	376.0	440.7
70°	216.7	216.7	218.1	220.0	223.3	229.3	235.2	248.5	268.9	301.3	348.2
72.5°	179.7	180.4	181.7	181.7	183.0	187.7	191.6	198.9	212.8	235.2	270.9
75°	137.4	139.4	142.7	145.4	148.7	148.0	152.6	157.9	162.6	177.1	198.9
77.5°	108.4	107.0	107.0	109.7	110.4	111.0	114.3	118.9	122.9	130.8	138.8
80°	78.0	78.0	80.0	80.6	80.0	80.6	83.9	85.9	87.2	89.9	97.1
82.5°	54.2	55.5	54.2	54.8	55.5	56.2	58.8	58.8	60.1	60.8	62.8
85°	33.0	33.7	34.4	33.0	33.0	33.0	34.4	35.0	36.3	35.7	37.0
87.5°	14.5	13.9	14.5	14.5	15.2	14.5	15.2	16.5	15.2	15.9	15.9
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: P242765

CATALOG NUMBER: S124RDRP-S1195D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1
2.5°	1702.2	1693.0	1688.3	1677.8	1665.2	1658.6	1652.6	1644.1	1632.8	1620.9	1612.3
5°	1775.6	1759.7	1739.9	1716.1	1694.9	1674.5	1656.6	1638.8	1618.3	1597.1	1576.0
7.5°	1848.2	1819.8	1789.4	1753.1	1718.1	1685.7	1656.6	1628.2	1595.8	1566.7	1539.7
10°	1924.9	1882.6	1835.7	1786.1	1736.6	1693.6	1651.3	1613.0	1570.7	1533.0	1501.3
12.5°	1987.0	1935.5	1876.7	1811.9	1749.8	1695.6	1645.4	1592.5	1543.0	1501.3	1456.4
15°	2057.1	1989.0	1913.0	1839.0	1761.7	1691.0	1625.6	1567.4	1512.6	1455.1	1414.8
17.5°	2105.3	2026.7	1936.8	1850.9	1762.3	1680.4	1606.4	1539.0	1476.2	1418.7	1371.1
20°	2147.6	2058.4	1956.0	1854.9	1752.4	1663.2	1581.9	1505.3	1439.9	1376.4	1326.9
22.5°	2171.4	2070.3	1956.0	1848.9	1741.9	1643.4	1552.2	1471.6	1398.9	1335.5	1279.3
25°	2172.7	2067.0	1952.6	1831.1	1714.8	1612.3	1519.8	1433.3	1354.0	1290.5	1232.4
27.5°	2167.4	2045.2	1930.2	1806.6	1687.0	1578.0	1482.2	1390.3	1311.7	1244.3	1184.8
30°	2151.5	2018.1	1892.5	1763.0	1641.4	1537.7	1435.2	1348.0	1265.4	1194.7	1134.6
32.5°	2117.2	1985.0	1847.6	1714.1	1590.5	1482.8	1387.0	1299.1	1218.5	1145.8	1081.1
35°	2069.6	1935.5	1788.8	1652.6	1531.7	1420.7	1329.5	1244.9	1167.6	1090.3	1022.9
37.5°	2014.8	1874.7	1730.0	1580.6	1460.4	1354.6	1269.4	1188.1	1112.8	1042.1	967.4
40°	1930.2	1805.3	1654.6	1506.6	1382.4	1281.3	1204.0	1131.9	1055.9	985.9	911.2
42.5°	1827.8	1726.0	1573.4	1424.7	1302.4	1205.9	1135.2	1065.2	997.8	930.4	851.8
45°	1711.5	1630.8	1488.1	1345.4	1221.8	1125.3	1059.3	997.1	936.3	871.6	798.2
47.5°	1581.9	1522.5	1398.2	1248.9	1133.3	1044.7	981.3	929.7	876.2	810.8	744.7
50°	1445.8	1410.8	1291.9	1158.4	1049.3	969.4	904.0	856.4	813.4	751.3	693.8
52.5°	1300.4	1285.9	1190.1	1063.9	959.5	881.5	828.0	786.3	742.7	693.8	641.0
55°	1152.4	1162.3	1077.1	966.7	867.6	801.5	750.7	715.0	678.0	634.4	592.7
57.5°	998.5	1036.1	972.7	872.9	777.1	715.0	676.0	644.3	613.2	576.2	538.5
60°	863.0	893.4	861.0	775.8	694.5	637.7	602.0	578.9	547.8	514.8	487.7
62.5°	730.8	763.9	748.0	683.3	609.3	562.3	531.9	510.8	489.6	461.9	433.5
65°	624.5	645.6	636.3	588.8	535.2	493.6	464.5	448.7	427.5	406.4	381.3
67.5°	499.6	541.2	534.6	508.2	456.6	423.6	403.1	388.5	368.7	352.9	335.0
70°	393.2	430.8	430.2	409.7	384.6	354.2	341.0	329.1	311.9	296.7	282.8
72.5°	304.0	337.7	344.3	329.7	314.5	293.4	280.8	273.6	257.0	247.8	237.2
75°	225.3	250.4	257.0	257.0	249.1	237.2	226.0	220.7	208.8	199.6	193.0
77.5°	158.6	175.8	185.7	187.7	188.3	183.7	173.1	169.2	159.9	156.6	149.3
80°	104.4	115.0	126.9	130.8	134.1	132.8	128.9	126.2	117.6	114.3	111.7
82.5°	64.1	68.7	78.0	87.9	85.9	90.5	87.2	85.2	79.3	78.6	76.0
85°	37.7	38.3	39.6	45.6	48.9	50.2	50.9	49.6	47.6	47.6	43.0
87.5°	15.9	15.2	16.5	16.5	17.2	19.8	21.8	22.5	20.5	18.5	16.5
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: P242765

CATALOG NUMBER: S124RDRP-S1195D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1	1640.1
2.5°	1603.1	1596.5	1587.9	1578.0	1566.1	1555.5	1550.9	1554.8	1556.8	1551.5	1550.9
5°	1561.5	1544.9	1531.7	1511.9	1496.0	1482.8	1473.6	1469.6	1470.9	1460.4	1457.7
7.5°	1515.2	1497.4	1475.6	1453.1	1431.9	1413.4	1403.5	1398.9	1387.7	1383.0	1375.8
10°	1470.9	1444.5	1423.4	1395.6	1370.5	1347.4	1336.1	1326.9	1315.6	1310.4	1299.1
12.5°	1425.3	1393.6	1369.8	1340.8	1315.0	1285.9	1275.3	1256.2	1237.0	1224.5	1209.3
15°	1383.0	1346.0	1317.6	1283.3	1252.9	1221.1	1192.7	1161.0	1149.1	1124.0	1109.5
17.5°	1332.8	1294.5	1262.8	1218.5	1172.9	1134.6	1102.9	1069.8	1052.0	1034.8	1027.5
20°	1283.3	1248.9	1200.0	1146.5	1094.3	1050.7	1026.2	1006.4	986.6	975.3	967.4
22.5°	1236.3	1190.1	1131.3	1072.5	1020.3	988.5	968.7	948.2	933.0	922.5	911.2
25°	1182.8	1125.3	1065.2	999.1	963.4	933.7	911.2	894.7	884.8	870.9	865.6
27.5°	1130.6	1061.2	993.2	948.2	911.2	882.8	862.3	850.4	837.2	828.0	820.7
30°	1068.5	997.8	938.3	896.0	858.4	835.9	820.0	805.5	795.6	788.3	783.0
32.5°	1007.1	936.3	888.8	842.5	814.8	793.0	775.8	765.9	758.6	748.7	746.0
35°	948.2	885.5	841.9	800.9	770.5	750.7	737.4	726.2	719.6	717.0	715.0
37.5°	890.8	838.5	790.3	757.3	728.9	713.7	696.5	691.2	686.6	680.6	683.3
40°	836.6	788.3	746.7	711.0	689.2	672.0	662.8	656.2	652.2	652.2	652.2
42.5°	789.6	742.7	702.4	671.4	649.6	635.7	625.1	619.8	619.2	618.5	622.5
45°	740.8	697.1	656.2	629.7	611.2	596.7	590.8	586.1	586.1	588.8	589.4
47.5°	691.9	650.9	617.8	587.4	570.3	561.0	555.7	553.1	553.1	556.4	559.0
50°	647.6	607.3	574.9	548.5	532.6	524.0	519.4	518.1	519.4	519.4	524.0
52.5°	599.3	564.3	532.6	511.5	493.0	485.0	483.0	481.1	481.7	484.4	485.7
55°	552.4	520.0	489.6	468.5	455.3	450.0	444.1	444.7	443.4	444.7	444.7
57.5°	504.8	476.4	446.7	429.5	418.3	410.4	403.7	405.7	403.7	403.7	403.1
60°	459.3	427.5	405.1	389.9	376.7	370.0	364.1	365.4	363.4	362.1	359.5
62.5°	409.7	384.6	363.4	348.9	339.0	331.1	325.1	323.1	317.8	312.6	305.9
65°	362.1	340.3	321.1	307.3	297.4	291.4	286.8	282.8	272.9	262.3	257.0
67.5°	315.2	299.3	280.8	268.9	261.0	253.1	244.5	237.2	227.3	220.7	217.4
70°	270.3	255.1	239.9	228.6	220.0	212.8	202.9	198.2	191.6	189.0	185.7
72.5°	227.3	213.4	199.6	189.6	180.4	175.1	167.8	163.2	161.2	160.6	157.3
75°	183.7	172.5	161.9	152.6	145.4	141.4	138.1	134.8	133.5	127.5	124.2
77.5°	141.4	133.5	126.9	119.6	115.0	112.3	105.1	100.4	97.8	94.5	93.8
80°	104.4	99.1	92.5	88.5	81.3	78.6	76.0	75.3	74.7	74.0	73.3
82.5°	72.0	66.7	60.1	58.1	57.5	56.2	54.8	54.2	53.5	54.2	54.2
85°	39.6	37.0	37.0	36.3	35.7	35.0	34.4	34.4	33.7	34.4	33.7
87.5°	16.5	15.9	15.9	14.5	15.2	15.2	14.5	14.5	15.2	13.9	13.9
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: P242765

CATALOG NUMBER: S124RDRP-S1195D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1640.1	1640.1	1640.1	1640.1
2.5°	1546.9	1548.2	1543.6	1542.3
5°	1452.4	1451.1	1447.8	1448.5
7.5°	1370.5	1365.9	1369.2	1363.9
10°	1296.5	1289.2	1283.3	1278.0
12.5°	1195.4	1189.4	1180.8	1184.1
15°	1100.9	1091.0	1075.1	1077.1
17.5°	1016.3	1017.6	1008.4	1011.0
20°	953.5	948.9	949.6	947.6
22.5°	909.9	904.0	898.0	893.4
25°	859.7	855.7	849.8	848.5
27.5°	815.4	814.8	812.1	808.8
30°	777.8	776.4	775.1	773.1
32.5°	744.1	743.4	742.1	742.7
35°	712.3	711.7	710.4	709.7
37.5°	682.6	684.6	683.3	683.3
40°	651.5	652.2	653.5	652.9
42.5°	625.8	625.8	627.8	625.1
45°	594.1	598.0	597.4	597.4
47.5°	560.4	565.0	565.6	565.6
50°	527.3	526.0	528.0	527.3
52.5°	487.0	487.7	487.0	486.3
55°	445.4	446.0	444.7	445.4
57.5°	401.1	398.5	400.4	399.1
60°	352.9	347.6	346.3	343.6
62.5°	298.7	295.4	290.1	293.4
65°	251.8	249.1	247.1	249.8
67.5°	214.1	212.8	212.8	211.5
70°	185.7	183.7	183.7	182.4
72.5°	156.6	154.6	155.3	154.6
75°	120.3	117.0	117.0	117.6
77.5°	93.8	93.2	94.5	92.5
80°	73.3	72.7	72.0	74.0
82.5°	52.9	52.9	52.9	55.5
85°	34.4	33.0	34.4	33.0
87.5°	15.2	14.5	13.9	14.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242765  
 CATALOG NUMBER: S124RDRP-S1195D940-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	18.41	19.93	18.78	20.25	20.56	20.23	21.75	20.59	22.07	22.38
	3H	19.64	21.00	20.02	21.33	21.69	21.68	23.05	22.06	23.38	23.74
	4H	20.07	21.35	20.47	21.70	22.08	22.20	23.48	22.60	23.83	24.21
	6H	20.34	21.53	20.76	21.89	22.29	22.55	23.73	22.96	24.10	24.49
	8H	20.42	21.55	20.85	21.94	22.34	22.65	23.78	23.08	24.17	24.57
	12H	20.47	21.55	20.90	21.93	22.36	22.71	23.79	23.14	24.17	24.60
4H	2H	19.67	20.95	20.07	21.30	21.68	20.74	22.02	21.14	22.37	22.74
	3H	20.91	21.97	21.32	22.37	22.77	22.48	23.54	22.89	23.94	24.34
	4H	21.37	22.33	21.80	22.74	23.18	23.11	24.06	23.54	24.48	24.92
	6H	21.69	22.52	22.15	22.97	23.43	23.56	24.39	24.02	24.83	25.29
	8H	21.79	22.56	22.25	23.01	23.48	23.70	24.47	24.16	24.92	25.38
	12H	21.86	22.55	22.34	23.03	23.50	23.79	24.48	24.27	24.96	25.43
8H	4H	21.77	22.55	22.24	22.99	23.46	23.22	23.99	23.68	24.44	24.90
	6H	22.16	22.80	22.66	23.29	23.77	23.76	24.40	24.26	24.89	25.37
	8H	22.30	22.87	22.81	23.38	23.87	23.95	24.52	24.46	25.03	25.52
	12H	22.41	22.91	22.92	23.41	23.97	24.10	24.60	24.61	25.10	25.66
12H	4H	21.81	22.50	22.29	22.98	23.45	23.21	23.90	23.69	24.38	24.85
	6H	22.21	22.78	22.72	23.29	23.78	23.75	24.32	24.26	24.83	25.32
	8H	22.39	22.90	22.90	23.39	23.95	23.98	24.49	24.49	24.98	25.54