

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: P242735

Luminaire Tested: S124RDRP-S1195D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242735
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-S1195D927-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

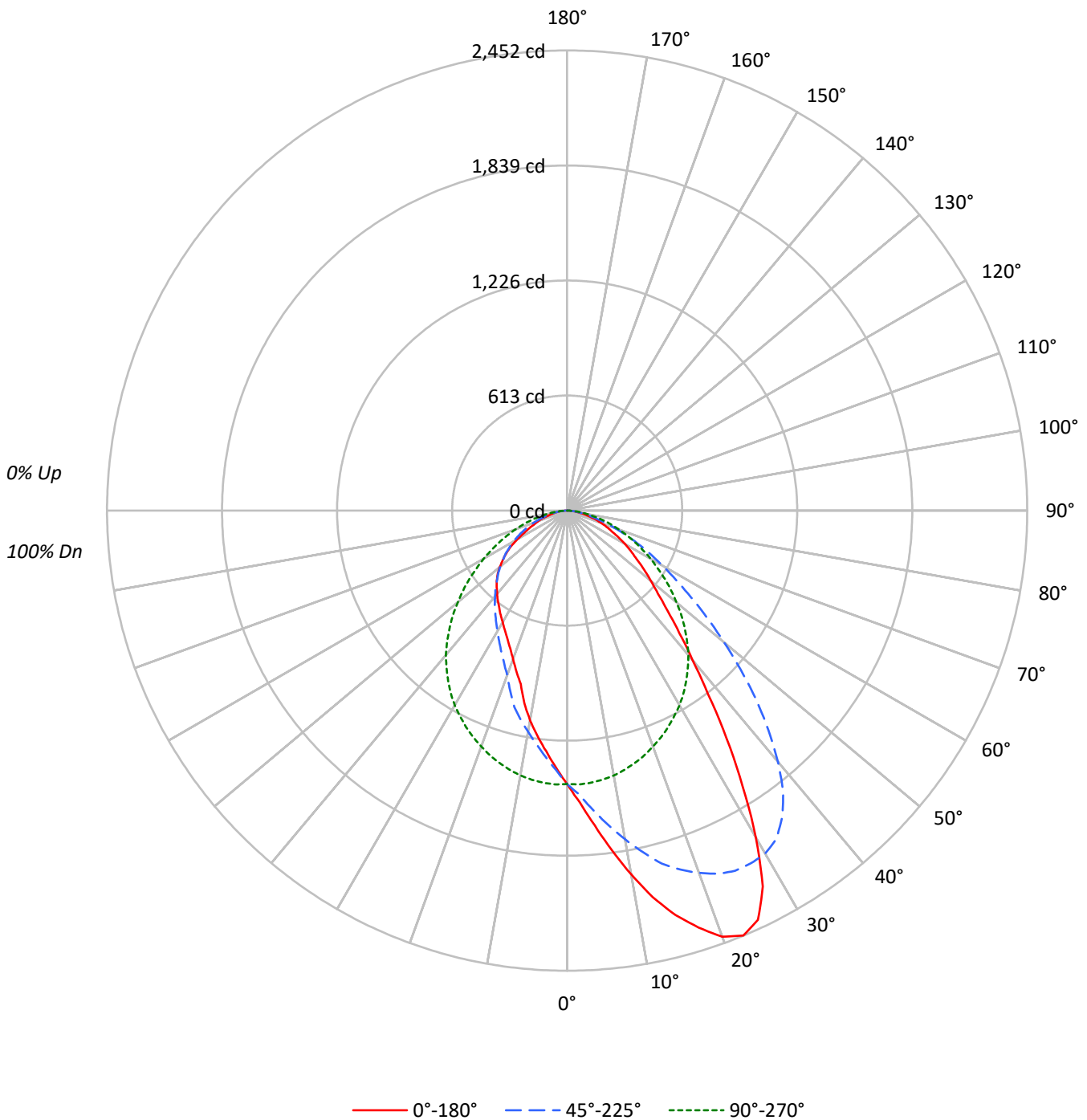
Lumens per Lamp: N/A
Luminaire Lumens: 3683.2 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{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					86			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12951	12951	12951	12951	12951
5°	15023	14300	12991	11754	11482
10°	17771	16055	12934	10804	10247
15°	20529	17925	12814	9983	8806
20°	22857	19435	12650	8829	7963
25°	23595	20773	12488	8136	7393
30°	20655	21667	12292	7622	7049
35°	16078	21678	12002	7237	6842
40°	12057	20279	11669	6927	6730
45°	9520	17896	11135	6664	6671
50°	8037	15059	10521	6437	6479
55°	7005	12482	9844	6196	6132
60°	6304	10446	9141	5844	5428
65°	5557	8706	8384	5445	4667
70°	5003	6957	7597	4912	4210
75°	4193	5402	6735	4314	3589
80°	3547	4085	5738	3578	3363
85°	2998	3233	4488	3172	2998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 19113 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.8
10°-20°	426.0	11.6
20°-30°	667.4	18.1
30°-40°	741.1	20.1
40°-50°	656.7	17.8
50°-60°	511.8	13.9
60°-70°	334.8	9.1
70°-80°	164.3	4.5
80°-90°	40.0	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°	1234.5	33.5
0°-40°	1975.6	53.6
0°-60°	3144.2	85.4
0°-90°	3683.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1457	1457	1457	1457	1457	
5°	1684	1603	1456	1317	1287	170
15°	2231	1948	1392	1085	957	635
25°	2406	2118	1273	830	754	1074
35°	1482	1998	1106	667	630	927
45°	757	1424	886	530	531	597
55°	452	805	635	400	396	411
65°	264	414	399	259	222	265
75°	122	157	196	126	104	134
85°	29	32	44	31	29	34
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°	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0
2.5°	1556.8	1562.1	1556.8	1556.2	1550.4	1548.6	1546.3	1538.6	1524.5	1516.3	1518.1
5°	1683.6	1698.3	1690.1	1688.9	1676.0	1663.1	1654.9	1636.1	1616.1	1602.6	1591.5
7.5°	1824.5	1833.3	1827.5	1821.0	1798.7	1791.6	1772.3	1750.0	1716.5	1691.3	1668.4
10°	1968.9	1976.0	1973.6	1958.4	1943.1	1912.0	1894.4	1859.7	1814.5	1778.7	1745.3
12.5°	2111.0	2118.6	2093.4	2098.1	2065.8	2042.9	2012.4	1966.6	1912.6	1863.9	1819.8
15°	2230.8	2221.4	2221.4	2209.6	2177.3	2143.3	2114.5	2068.7	2003.0	1947.8	1889.7
17.5°	2329.4	2333.5	2328.8	2298.8	2275.4	2240.7	2189.1	2136.8	2079.9	2005.9	1948.4
20°	2416.3	2416.3	2411.0	2392.2	2359.3	2321.7	2264.8	2206.7	2129.2	2054.6	1987.7
22.5°	2451.5	2453.8	2447.4	2432.7	2403.9	2367.5	2321.2	2261.9	2181.4	2095.1	2008.3
25°	2405.7	2416.8	2418.0	2413.9	2405.1	2382.8	2341.1	2280.6	2209.0	2118.0	2028.8
27.5°	2257.8	2272.4	2278.3	2291.2	2315.3	2324.1	2318.8	2278.3	2209.0	2119.2	2030.6
30°	2012.4	2024.1	2062.3	2112.2	2150.9	2186.1	2216.7	2224.9	2189.7	2111.0	2016.5
32.5°	1740.0	1757.0	1795.2	1849.8	1920.8	1986.5	2064.6	2106.3	2113.9	2074.6	1988.9
35°	1481.7	1493.4	1528.7	1585.0	1662.5	1751.1	1859.7	1944.3	2001.8	1997.7	1944.3
37.5°	1234.0	1250.4	1286.2	1332.6	1408.9	1522.2	1624.9	1738.2	1841.5	1892.0	1865.0
40°	1039.1	1039.6	1074.3	1122.4	1192.9	1288.6	1403.0	1532.2	1650.8	1747.6	1766.4
42.5°	885.3	885.3	905.2	958.0	1003.8	1092.5	1200.5	1328.5	1472.3	1587.9	1645.5
45°	757.3	762.6	781.3	812.5	852.4	928.7	1016.2	1135.3	1290.9	1423.6	1506.3
47.5°	656.3	665.7	676.9	705.0	737.9	791.3	865.9	977.4	1106.6	1253.9	1368.4
50°	581.2	582.3	597.6	611.7	639.3	679.8	743.2	832.4	948.7	1089.0	1219.9
52.5°	516.6	516.0	523.6	542.4	563.6	592.9	641.0	720.3	820.1	942.2	1078.4
55°	452.0	455.0	462.0	476.1	493.1	515.4	555.9	617.0	698.0	805.4	928.1
57.5°	402.7	404.5	410.9	416.2	432.6	449.1	482.0	526.0	597.0	686.8	807.2
60°	354.6	355.2	356.9	365.7	378.1	393.3	413.9	449.7	507.2	587.6	678.0
62.5°	307.6	308.8	311.7	317.6	326.4	335.8	357.5	384.5	429.7	495.5	574.7
65°	264.2	264.8	268.9	271.2	278.8	288.2	304.1	323.5	356.3	413.9	475.5
67.5°	227.8	227.8	227.8	231.3	237.2	243.6	254.2	270.6	297.0	334.0	391.6
70°	192.5	192.5	193.7	195.5	198.4	203.7	209.0	220.7	238.9	267.7	309.4
72.5°	159.7	160.3	161.4	161.4	162.6	166.7	170.2	176.7	189.0	209.0	240.7
75°	122.1	123.9	126.8	129.1	132.1	131.5	135.6	140.3	144.4	157.3	176.7
77.5°	96.3	95.1	95.1	97.4	98.0	98.6	101.6	105.7	109.2	116.2	123.3
80°	69.3	69.3	71.0	71.6	71.0	71.6	74.6	76.3	77.5	79.8	86.3
82.5°	48.1	49.3	48.1	48.7	49.3	49.9	52.2	52.2	53.4	54.0	55.8
85°	29.4	29.9	30.5	29.4	29.4	29.4	30.5	31.1	32.3	31.7	32.9
87.5°	12.9	12.3	12.9	12.9	13.5	12.9	13.5	14.7	13.5	14.1	14.1
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°	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0
2.5°	1512.2	1504.0	1499.9	1490.5	1479.3	1473.5	1468.2	1460.6	1450.6	1440.0	1432.4
5°	1577.4	1563.3	1545.7	1524.5	1505.8	1487.6	1471.7	1455.9	1437.7	1418.9	1400.1
7.5°	1642.0	1616.7	1589.7	1557.4	1526.3	1497.5	1471.7	1446.5	1417.7	1391.9	1367.8
10°	1710.0	1672.5	1630.8	1586.8	1542.7	1504.6	1467.0	1433.0	1395.4	1361.9	1333.8
12.5°	1765.2	1719.4	1667.2	1609.7	1554.5	1506.3	1461.7	1414.8	1370.7	1333.8	1293.8
15°	1827.5	1767.0	1699.5	1633.7	1565.0	1502.2	1444.1	1392.5	1343.7	1292.7	1256.9
17.5°	1870.3	1800.5	1720.6	1644.3	1565.6	1492.8	1427.1	1367.2	1311.4	1260.4	1218.1
20°	1907.9	1828.6	1737.6	1647.8	1556.8	1477.6	1405.4	1337.3	1279.2	1222.8	1178.8
22.5°	1929.0	1839.2	1737.6	1642.5	1547.4	1460.0	1379.0	1307.3	1242.8	1186.4	1136.5
25°	1930.2	1836.3	1734.7	1626.7	1523.4	1432.4	1350.2	1273.3	1202.8	1146.5	1094.8
27.5°	1925.5	1816.9	1714.7	1605.0	1498.7	1401.9	1316.7	1235.1	1165.3	1105.4	1052.6
30°	1911.4	1792.8	1681.3	1566.2	1458.2	1366.0	1275.1	1197.6	1124.2	1061.4	1007.9
32.5°	1880.9	1763.5	1641.4	1522.8	1413.0	1317.3	1232.2	1154.1	1082.5	1017.9	960.4
35°	1838.6	1719.4	1589.1	1468.2	1360.8	1262.1	1181.1	1106.0	1037.3	968.6	908.7
37.5°	1789.9	1665.4	1536.9	1404.2	1297.4	1203.4	1127.7	1055.5	988.6	925.8	859.4
40°	1714.7	1603.8	1469.9	1338.5	1228.1	1138.3	1069.6	1005.6	938.1	875.9	809.5
42.5°	1623.8	1533.3	1397.7	1265.7	1157.1	1071.3	1008.5	946.3	886.4	826.6	756.7
45°	1520.4	1448.8	1322.0	1195.2	1085.4	999.7	941.0	885.8	831.8	774.3	709.1
47.5°	1405.4	1352.5	1242.2	1109.5	1006.8	928.1	871.8	826.0	778.4	720.3	661.6
50°	1284.4	1253.3	1147.7	1029.1	932.2	861.2	803.1	760.8	722.6	667.5	616.4
52.5°	1155.3	1142.4	1057.3	945.1	852.4	783.1	735.6	698.6	659.8	616.4	569.4
55°	1023.8	1032.6	956.9	858.8	770.8	712.1	666.9	635.2	602.3	563.6	526.6
57.5°	887.0	920.5	864.1	775.5	690.4	635.2	600.5	572.4	544.8	511.9	478.4
60°	766.7	793.7	764.9	689.2	617.0	566.5	534.8	514.2	486.7	457.3	433.2
62.5°	649.3	678.6	664.5	607.0	541.3	499.6	472.6	453.8	435.0	410.3	385.1
65°	554.8	573.5	565.3	523.1	475.5	438.5	412.7	398.6	379.8	361.0	338.7
67.5°	443.8	480.8	474.9	451.4	405.6	376.3	358.1	345.2	327.6	313.5	297.6
70°	349.3	382.7	382.2	364.0	341.7	314.7	302.9	292.3	277.1	263.6	251.3
72.5°	270.0	300.0	305.8	292.9	279.4	260.6	249.5	243.0	228.4	220.1	210.7
75°	200.2	222.5	228.4	228.4	221.3	210.7	200.8	196.1	185.5	177.3	171.4
77.5°	140.9	156.2	165.0	166.7	167.3	163.2	153.8	150.3	142.1	139.1	132.7
80°	92.8	102.1	112.7	116.2	119.2	118.0	114.5	112.1	104.5	101.6	99.2
82.5°	56.9	61.1	69.3	78.1	76.3	80.4	77.5	75.7	70.4	69.9	67.5
85°	33.5	34.0	35.2	40.5	43.4	44.6	45.2	44.0	42.3	42.3	38.2
87.5°	14.1	13.5	14.7	14.7	15.3	17.6	19.4	20.0	18.2	16.4	14.7
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°	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0	1457.0
2.5°	1424.2	1418.3	1410.7	1401.9	1391.3	1381.9	1377.8	1381.3	1383.1	1378.4	1377.8
5°	1387.2	1372.5	1360.8	1343.1	1329.1	1317.3	1309.1	1305.6	1306.8	1297.4	1295.0
7.5°	1346.1	1330.2	1310.9	1290.9	1272.1	1255.7	1246.9	1242.8	1232.8	1228.7	1222.2
10°	1306.8	1283.3	1264.5	1239.8	1217.5	1197.0	1187.0	1178.8	1168.8	1164.1	1154.1
12.5°	1266.2	1238.1	1216.9	1191.1	1168.2	1142.4	1133.0	1116.0	1098.9	1087.8	1074.3
15°	1228.7	1195.8	1170.6	1140.0	1113.0	1084.8	1059.6	1031.4	1020.9	998.6	985.6
17.5°	1184.1	1150.0	1121.8	1082.5	1042.0	1007.9	979.8	950.4	934.6	919.3	912.8
20°	1140.0	1109.5	1066.1	1018.5	972.1	933.4	911.7	894.1	876.5	866.5	859.4
22.5°	1098.4	1057.3	1005.0	952.8	906.4	878.2	860.6	842.4	828.9	819.5	809.5
25°	1050.8	999.7	946.3	887.6	855.9	829.5	809.5	794.9	786.0	773.7	769.0
27.5°	1004.4	942.8	882.3	842.4	809.5	784.3	766.1	755.5	743.8	735.6	729.1
30°	949.2	886.4	833.6	796.0	762.6	742.6	728.5	715.6	706.8	700.3	695.6
32.5°	894.6	831.8	789.6	748.5	723.8	704.4	689.2	680.4	673.9	665.1	662.8
35°	842.4	786.6	747.9	711.5	684.5	666.9	655.1	645.2	639.3	636.9	635.2
37.5°	791.3	745.0	702.1	672.7	647.5	634.0	618.7	614.0	609.9	604.7	607.0
40°	743.2	700.3	663.4	631.7	612.3	597.0	588.8	582.9	579.4	579.4	579.4
42.5°	701.5	659.8	624.0	596.4	577.1	564.7	555.3	550.6	550.1	549.5	553.0
45°	658.1	619.3	582.9	559.4	543.0	530.1	524.8	520.7	520.7	523.1	523.6
47.5°	614.6	578.2	548.9	521.9	506.6	498.4	493.7	491.4	491.4	494.3	496.6
50°	575.3	539.5	510.7	487.2	473.2	465.5	461.4	460.2	461.4	461.4	465.5
52.5°	532.4	501.3	473.2	454.4	437.9	430.9	429.1	427.4	428.0	430.3	431.5
55°	490.8	462.0	435.0	416.2	404.5	399.8	394.5	395.1	393.9	395.1	395.1
57.5°	448.5	423.3	396.8	381.6	371.6	364.6	358.7	360.4	358.7	358.7	358.1
60°	408.0	379.8	359.9	346.4	334.6	328.7	323.5	324.6	322.9	321.7	319.3
62.5°	364.0	341.7	322.9	310.0	301.2	294.1	288.8	287.1	282.4	277.7	271.8
65°	321.7	302.3	285.3	273.0	264.2	258.9	254.8	251.3	242.4	233.1	228.4
67.5°	280.0	265.9	249.5	238.9	231.9	224.8	217.2	210.7	201.9	196.1	193.1
70°	240.1	226.6	213.1	203.1	195.5	189.0	180.2	176.1	170.2	167.9	165.0
72.5°	201.9	189.6	177.3	168.5	160.3	155.6	149.1	145.0	143.2	142.7	139.7
75°	163.2	153.2	143.8	135.6	129.1	125.6	122.7	119.8	118.6	113.3	110.4
77.5°	125.6	118.6	112.7	106.3	102.1	99.8	93.3	89.2	86.9	83.9	83.4
80°	92.8	88.1	82.2	78.7	72.2	69.9	67.5	66.9	66.3	65.7	65.2
82.5°	64.0	59.3	53.4	51.7	51.1	49.9	48.7	48.1	47.6	48.1	48.1
85°	35.2	32.9	32.9	32.3	31.7	31.1	30.5	30.5	29.9	30.5	29.9
87.5°	14.7	14.1	14.1	12.9	13.5	13.5	12.9	12.9	13.5	12.3	12.3
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: P242735

CATALOG NUMBER: S124RDRP-S1195D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1457.0	1457.0	1457.0	1457.0
2.5°	1374.3	1375.4	1371.3	1370.2
5°	1290.3	1289.1	1286.2	1286.8
7.5°	1217.5	1213.4	1216.3	1211.6
10°	1151.8	1145.3	1140.0	1135.3
12.5°	1062.0	1056.7	1049.0	1052.0
15°	978.0	969.2	955.1	956.9
17.5°	902.9	904.0	895.8	898.2
20°	847.1	843.0	843.6	841.8
22.5°	808.4	803.1	797.8	793.7
25°	763.7	760.2	754.9	753.8
27.5°	724.4	723.8	721.5	718.5
30°	690.9	689.8	688.6	686.8
32.5°	661.0	660.4	659.2	659.8
35°	632.8	632.2	631.1	630.5
37.5°	606.4	608.2	607.0	607.0
40°	578.8	579.4	580.6	580.0
42.5°	555.9	555.9	557.7	555.3
45°	527.7	531.3	530.7	530.7
47.5°	497.8	501.9	502.5	502.5
50°	468.5	467.3	469.0	468.5
52.5°	432.6	433.2	432.6	432.1
55°	395.7	396.3	395.1	395.7
57.5°	356.3	354.0	355.7	354.6
60°	313.5	308.8	307.6	305.3
62.5°	265.3	262.4	257.7	260.6
65°	223.7	221.3	219.6	221.9
67.5°	190.2	189.0	189.0	187.9
70°	165.0	163.2	163.2	162.0
72.5°	139.1	137.4	138.0	137.4
75°	106.8	103.9	103.9	104.5
77.5°	83.4	82.8	83.9	82.2
80°	65.2	64.6	64.0	65.7
82.5°	47.0	47.0	47.0	49.3
85°	30.5	29.4	30.5	29.4
87.5°	13.5	12.9	12.3	12.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242735
 CATALOG NUMBER: S124RDRP-S1195D927-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	18.00	19.52	18.37	19.84	20.15	19.82	21.34	20.18	21.65	21.97
	3H	19.23	20.59	19.60	20.92	21.28	21.27	22.64	21.65	22.97	23.33
	4H	19.66	20.94	20.06	21.29	21.67	21.79	23.07	22.19	23.42	23.80
	6H	19.93	21.12	20.35	21.48	21.87	22.14	23.32	22.55	23.69	24.08
	8H	20.01	21.14	20.44	21.53	21.93	22.24	23.37	22.67	23.76	24.16
	12H	20.06	21.14	20.49	21.52	21.95	22.30	23.38	22.73	23.76	24.19
4H	2H	19.26	20.54	19.66	20.89	21.27	20.33	21.61	20.73	21.96	22.33
	3H	20.50	21.56	20.91	21.96	22.36	22.07	23.13	22.48	23.53	23.93
	4H	20.96	21.91	21.39	22.33	22.77	22.69	23.65	23.13	24.07	24.50
	6H	21.28	22.11	21.74	22.56	23.02	23.15	23.98	23.61	24.42	24.88
	8H	21.38	22.15	21.84	22.60	23.06	23.29	24.06	23.75	24.51	24.97
	12H	21.45	22.14	21.93	22.62	23.09	23.38	24.07	23.86	24.55	25.02
8H	4H	21.36	22.14	21.83	22.58	23.05	22.81	23.58	23.27	24.03	24.49
	6H	21.75	22.39	22.25	22.88	23.36	23.35	23.99	23.85	24.48	24.96
	8H	21.88	22.46	22.40	22.97	23.46	23.54	24.11	24.05	24.62	25.11
	12H	22.00	22.50	22.51	23.00	23.56	23.69	24.19	24.20	24.69	25.25
12H	4H	21.40	22.09	21.88	22.57	23.04	22.79	23.49	23.28	23.97	24.44
	6H	21.80	22.37	22.31	22.88	23.37	23.34	23.91	23.85	24.42	24.91
	8H	21.98	22.48	22.49	22.98	23.54	23.57	24.08	24.08	24.57	25.13