

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: P243625

Luminaire Tested: S124RDRP-H1195D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-70)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-H1195D940-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

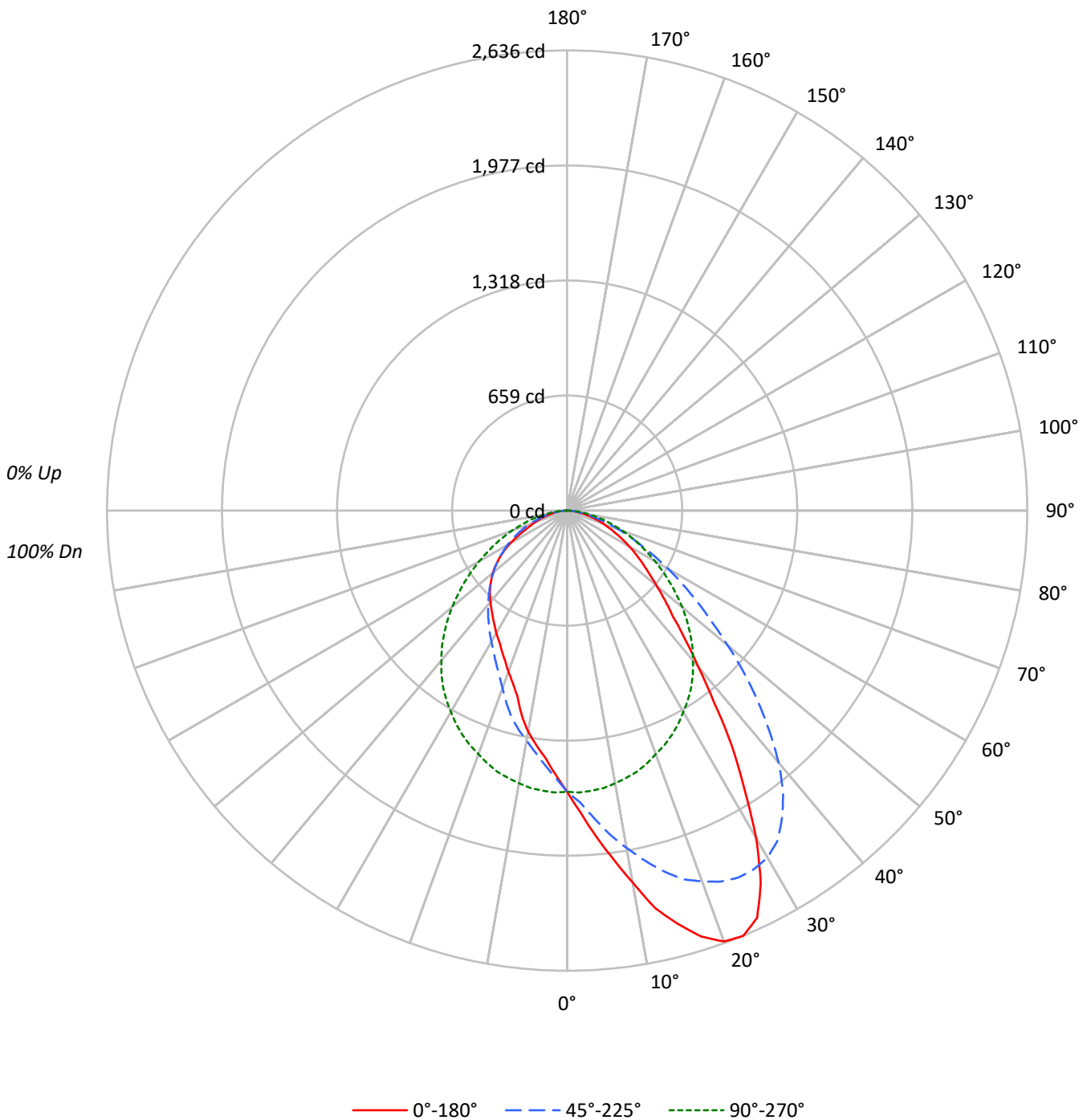
Lumens per Lamp: N/A
Luminaire Lumens: 4156.6 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.23 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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	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	105	102	98	107	103	100	97	99	96	93	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	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	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14316	14316	14316	14316	14316
5°	16676	15775	14376	13050	12692
10°	19530	17712	14316	12074	11605
15°	22565	19691	14244	11283	10135
20°	24845	21387	14042	10245	9290
25°	25243	22752	13913	9454	8685
30°	22221	23560	13666	8896	8329
35°	17830	23295	13434	8500	8057
40°	13565	21882	13004	8157	7932
45°	10769	19441	12527	7876	7837
50°	9244	16574	11908	7624	7701
55°	8164	14073	11138	7358	7329
60°	7314	11897	10336	7024	6711
65°	6436	9787	9551	6543	5645
70°	5738	8067	8670	5998	5086
75°	4997	6333	7882	5279	4523
80°	4238	4848	6772	4464	4172
85°	3712	3967	5824	4345	4222

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 20923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.8
10°-20°	473.9	11.4
20°-30°	739.6	17.8
30°-40°	824.7	19.8
40°-50°	741.4	17.8
50°-60°	585.8	14.1
60°-70°	389.1	9.4
70°-80°	195.1	4.7
80°-90°	50.8	1.2
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°	1369.8	33.0
0°-40°	2194.5	52.8
0°-60°	3521.7	84.7
0°-90°	4156.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4156.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1610	1610	1610	1610	1610	
5°	1869	1768	1611	1462	1422	187
15°	2452	2140	1548	1226	1101	697
25°	2574	2320	1419	964	886	1152
35°	1643	2147	1238	783	742	1021
45°	857	1546	996	626	623	679
55°	527	908	719	475	473	475
65°	306	465	454	311	268	306
75°	146	184	230	154	132	156
85°	36	39	57	43	41	41
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°	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5
2.5°	1729.7	1723.4	1722.8	1714.6	1714.0	1705.8	1703.3	1696.4	1682.6	1672.0	1672.6
5°	1868.9	1863.9	1863.3	1855.1	1852.6	1842.6	1826.9	1808.1	1786.1	1767.9	1756.0
7.5°	2011.9	2020.7	2011.3	2011.3	1993.1	1981.2	1950.4	1934.8	1897.1	1870.8	1843.2
10°	2163.7	2171.8	2168.0	2160.5	2136.7	2112.2	2080.2	2049.5	2003.7	1962.3	1934.8
12.5°	2333.0	2308.5	2324.2	2301.0	2281.6	2242.7	2211.9	2150.5	2114.1	2053.9	2000.0
15°	2452.1	2442.7	2442.1	2426.4	2405.1	2362.5	2329.2	2265.3	2203.2	2139.8	2079.0
17.5°	2558.8	2560.0	2551.2	2526.2	2498.6	2457.2	2412.0	2354.9	2284.1	2213.8	2141.7
20°	2626.5	2627.1	2620.8	2607.7	2577.6	2539.9	2493.5	2418.9	2338.6	2260.9	2188.7
22.5°	2636.5	2638.4	2636.5	2628.4	2607.7	2576.9	2534.3	2471.0	2390.1	2301.0	2215.1
25°	2573.8	2580.1	2580.7	2592.0	2581.3	2569.4	2538.1	2484.8	2410.1	2319.8	2226.4
27.5°	2402.0	2419.5	2435.8	2455.9	2474.1	2490.4	2492.9	2464.7	2400.7	2316.7	2227.6
30°	2164.9	2185.6	2218.2	2239.5	2296.0	2331.7	2380.0	2390.7	2360.0	2295.4	2209.4
32.5°	1889.0	1910.9	1923.5	1993.7	2074.6	2132.9	2213.2	2260.9	2272.8	2242.1	2171.8
35°	1643.1	1646.9	1656.3	1735.9	1816.2	1904.6	2004.4	2087.1	2143.6	2146.7	2112.2
37.5°	1379.7	1384.1	1421.1	1481.9	1551.6	1648.8	1763.5	1881.4	1984.9	2032.6	2022.6
40°	1169.0	1167.7	1207.3	1259.9	1327.7	1428.6	1547.2	1675.7	1786.1	1885.8	1909.7
42.5°	998.4	1002.8	1036.7	1067.4	1132.6	1203.5	1330.2	1463.8	1605.5	1714.6	1787.4
45°	856.7	868.0	891.2	920.0	968.9	1034.2	1137.6	1270.6	1415.5	1546.5	1633.7
47.5°	758.8	762.0	773.9	809.6	842.3	894.9	983.4	1096.3	1224.8	1371.6	1486.3
50°	668.5	676.1	680.5	701.8	733.8	783.9	852.3	936.3	1063.6	1198.5	1342.1
52.5°	590.8	595.2	603.3	622.8	647.8	683.0	736.9	810.9	916.9	1041.7	1177.2
55°	526.8	527.4	535.6	549.4	568.8	595.8	647.2	700.5	794.6	908.1	1031.0
57.5°	469.1	465.3	472.9	481.0	499.8	523.0	556.3	610.8	684.2	780.8	891.8
60°	411.4	414.5	413.9	423.3	433.4	456.6	484.8	520.5	580.7	669.2	763.2
62.5°	357.5	356.8	363.1	368.8	375.7	394.5	417.7	447.2	494.2	559.4	650.4
65°	306.0	307.3	312.3	316.7	324.2	336.2	353.7	377.5	415.2	465.3	541.9
67.5°	259.6	264.0	266.5	267.8	274.7	283.5	298.5	318.0	343.7	383.8	447.8
70°	220.8	222.0	223.3	227.7	230.8	235.8	247.1	257.8	281.0	310.4	356.8
72.5°	184.4	183.1	186.9	188.1	189.4	194.4	201.3	207.0	222.0	247.1	275.9
75°	145.5	146.1	146.8	148.6	153.7	154.3	157.4	163.7	174.3	184.4	203.8
77.5°	109.1	111.0	110.4	112.3	114.1	116.0	117.3	122.9	130.4	138.6	148.0
80°	82.8	82.8	82.8	84.0	82.8	87.2	87.2	89.1	90.9	94.7	101.6
82.5°	56.4	57.7	58.3	59.0	59.6	59.6	60.2	61.5	64.0	65.2	67.1
85°	36.4	35.1	35.7	35.7	35.7	35.7	37.0	38.3	38.3	38.9	40.8
87.5°	16.3	16.3	16.3	16.3	15.7	16.3	16.9	16.9	17.6	17.6	18.8
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°	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5
2.5°	1668.8	1667.0	1657.6	1647.5	1638.1	1628.7	1625.6	1616.2	1604.9	1594.8	1583.5
5°	1743.5	1728.4	1707.7	1686.4	1664.4	1644.4	1628.7	1611.1	1591.1	1567.2	1548.4
7.5°	1818.7	1791.1	1757.3	1725.9	1688.3	1658.2	1628.1	1603.0	1574.1	1540.3	1514.6
10°	1892.1	1846.3	1804.9	1755.4	1707.7	1666.3	1628.1	1586.1	1547.8	1511.4	1475.7
12.5°	1950.4	1904.6	1845.1	1784.2	1722.8	1668.8	1617.4	1567.9	1520.2	1476.3	1436.8
15°	2016.9	1951.1	1877.7	1810.6	1726.5	1660.1	1601.1	1547.8	1493.2	1439.9	1396.7
17.5°	2065.8	1988.1	1897.1	1820.0	1739.1	1656.3	1585.4	1518.3	1455.6	1399.8	1355.3
20°	2103.5	2011.3	1920.3	1822.5	1725.9	1641.2	1561.6	1484.5	1421.1	1360.3	1313.2
22.5°	2119.8	2022.6	1921.6	1815.6	1712.7	1616.8	1534.0	1454.4	1382.9	1320.1	1265.6
25°	2126.7	2020.0	1915.3	1794.9	1690.8	1593.0	1500.8	1418.6	1345.2	1274.4	1220.4
27.5°	2121.0	2006.9	1886.5	1772.9	1655.0	1559.1	1461.3	1377.8	1301.3	1233.0	1172.8
30°	2106.0	1976.8	1857.0	1729.7	1616.2	1515.2	1419.9	1331.4	1254.3	1184.7	1125.1
32.5°	2067.1	1942.9	1806.8	1682.6	1560.3	1460.6	1374.1	1286.9	1208.5	1135.8	1078.1
35°	2018.8	1897.1	1754.8	1624.9	1503.9	1402.9	1315.8	1238.0	1160.9	1083.7	1024.8
37.5°	1958.0	1834.4	1697.1	1557.2	1438.7	1340.8	1261.2	1182.8	1106.3	1035.4	969.6
40°	1875.8	1762.9	1624.9	1484.5	1365.3	1271.2	1192.8	1120.7	1053.0	983.4	912.5
42.5°	1773.6	1687.7	1545.3	1406.7	1290.0	1196.6	1127.0	1062.4	997.2	925.7	861.7
45°	1664.4	1591.1	1461.9	1322.0	1211.0	1120.1	1053.6	996.5	935.1	871.7	804.6
47.5°	1541.5	1487.0	1375.3	1236.7	1120.1	1042.3	980.9	928.8	873.0	816.5	751.3
50°	1402.9	1369.7	1274.4	1148.3	1037.3	958.3	907.5	861.1	813.4	757.0	701.2
52.5°	1264.3	1258.1	1169.0	1058.0	953.3	879.9	830.3	787.7	748.8	695.5	648.5
55°	1118.8	1137.6	1063.6	961.4	868.0	797.1	753.2	718.7	684.8	639.7	594.5
57.5°	989.6	1011.0	960.2	866.1	778.9	718.7	681.1	649.7	620.2	578.9	548.8
60°	846.6	885.5	858.6	772.6	695.5	641.6	606.5	581.4	556.9	521.2	494.8
62.5°	733.8	760.7	745.1	681.1	612.7	568.8	537.5	514.3	494.8	467.2	441.5
65°	612.7	646.6	638.4	596.4	536.2	496.1	472.2	454.1	434.0	412.0	390.7
67.5°	503.6	538.7	536.8	508.0	463.5	430.2	407.6	394.5	378.2	356.8	343.7
70°	405.1	437.7	439.0	424.6	393.2	361.9	345.6	333.6	321.1	305.4	296.0
72.5°	314.8	344.3	349.3	342.4	322.4	301.7	287.2	279.1	268.4	255.2	247.1
75°	235.2	256.5	268.4	265.3	257.1	243.3	235.2	229.5	218.9	209.5	202.6
77.5°	167.4	184.4	196.3	201.3	197.6	191.9	184.4	180.0	168.7	164.3	160.5
80°	112.3	127.3	138.0	141.1	143.0	141.7	134.8	132.3	126.7	124.8	121.0
82.5°	69.0	77.1	84.7	92.8	96.6	96.6	92.8	93.4	88.4	85.9	84.7
85°	42.0	43.9	45.2	51.4	56.4	58.3	56.4	57.1	55.2	53.3	51.4
87.5°	19.4	19.4	20.1	21.3	22.6	26.3	27.6	29.5	27.0	27.0	22.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5	1610.5
2.5°	1576.6	1568.5	1562.2	1552.2	1544.0	1530.9	1526.5	1526.5	1529.0	1525.9	1529.0
5°	1535.3	1520.2	1503.9	1489.5	1473.8	1462.5	1451.2	1448.7	1447.5	1439.9	1440.6
7.5°	1493.9	1473.8	1453.1	1434.3	1414.8	1397.3	1385.4	1380.4	1376.0	1370.9	1365.3
10°	1449.3	1426.1	1401.7	1380.4	1361.5	1337.7	1325.8	1322.0	1309.5	1307.0	1298.2
12.5°	1402.3	1378.5	1354.0	1326.4	1308.2	1285.0	1267.5	1259.3	1247.4	1238.6	1225.4
15°	1365.3	1335.2	1302.6	1275.6	1251.8	1226.1	1202.2	1186.6	1170.9	1146.4	1134.5
17.5°	1319.5	1285.0	1256.8	1228.0	1193.5	1155.8	1127.6	1104.4	1087.5	1067.4	1055.5
20°	1270.0	1238.0	1202.9	1162.1	1125.7	1083.1	1057.4	1037.9	1024.8	1012.8	1006.6
22.5°	1226.1	1189.1	1140.8	1101.9	1051.1	1017.2	996.5	984.0	971.5	958.9	952.6
25°	1178.4	1135.1	1076.2	1028.5	990.3	963.9	943.9	931.9	918.8	911.2	901.8
27.5°	1131.4	1075.6	1016.6	973.3	943.2	912.5	895.6	886.2	876.1	865.5	857.9
30°	1074.3	1011.0	962.0	922.5	892.4	866.7	854.2	840.4	831.6	825.3	820.9
32.5°	1014.7	953.9	909.4	875.5	846.0	826.6	810.9	802.1	794.6	787.7	782.7
35°	958.9	900.0	862.3	829.7	805.3	783.3	771.4	763.2	757.0	751.3	748.8
37.5°	903.7	853.5	812.8	787.1	761.4	743.8	732.5	725.0	721.2	715.6	716.2
40°	849.2	804.0	771.4	741.9	718.1	703.0	694.3	691.1	685.5	683.6	685.5
42.5°	800.2	758.8	727.5	699.9	679.2	664.8	657.9	653.5	651.6	651.0	651.6
45°	752.6	713.7	683.6	661.0	639.7	626.5	620.9	617.7	615.9	619.0	619.6
47.5°	704.9	669.8	642.8	616.5	598.9	589.5	583.9	581.4	583.2	584.5	588.9
50°	657.9	625.3	597.0	573.8	560.0	551.3	549.4	545.0	548.1	550.0	553.1
52.5°	610.2	580.7	555.7	533.7	519.3	513.6	509.2	507.4	511.8	511.8	514.9
55°	561.9	536.2	513.0	492.9	481.6	474.8	471.6	469.1	471.6	472.2	471.6
57.5°	516.8	492.3	467.9	450.9	441.5	434.0	430.9	429.6	429.0	431.5	430.9
60°	469.1	445.9	426.5	408.9	399.5	395.1	388.2	389.5	389.5	389.5	383.2
62.5°	421.4	398.2	381.3	369.4	358.1	350.6	349.3	347.4	343.7	343.0	334.9
65°	372.5	355.0	340.5	328.6	317.3	311.1	309.2	303.5	299.1	291.0	285.4
67.5°	327.4	314.8	297.9	287.9	278.5	270.9	264.0	259.6	250.9	242.7	237.7
70°	282.2	269.0	257.8	247.1	237.7	230.8	222.6	214.5	208.8	203.8	200.1
72.5°	237.1	225.8	216.4	206.3	196.3	189.4	183.1	176.9	174.3	171.8	170.0
75°	195.0	184.4	175.6	167.4	161.8	153.7	150.5	148.0	145.5	142.4	138.6
77.5°	154.3	146.1	139.2	132.3	127.3	122.9	120.4	112.9	106.6	105.4	104.1
80°	114.8	108.5	104.1	99.1	93.4	87.2	85.3	82.8	81.5	81.5	82.2
82.5°	80.3	76.5	71.5	67.1	65.2	62.7	62.7	62.1	61.5	62.1	62.1
85°	48.9	43.9	42.6	42.0	42.6	42.6	42.6	42.6	42.0	42.6	41.4
87.5°	21.3	23.2	23.8	22.0	22.6	21.3	22.0	22.0	22.0	22.6	22.0
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: P243625

CATALOG NUMBER: S124RDRP-H1195D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1610.5	1610.5	1610.5	1610.5
2.5°	1525.2	1525.2	1519.0	1513.9
5°	1439.3	1431.2	1429.9	1422.4
7.5°	1359.0	1357.8	1354.6	1354.6
10°	1295.1	1290.7	1286.3	1285.7
12.5°	1204.8	1211.0	1203.5	1201.6
15°	1125.7	1120.7	1114.4	1101.3
17.5°	1052.4	1042.9	1040.4	1034.8
20°	994.7	987.8	985.2	982.1
22.5°	940.1	938.8	931.3	929.4
25°	900.0	893.7	888.7	885.5
27.5°	856.1	851.7	849.2	844.1
30°	815.9	814.7	811.5	811.5
32.5°	779.5	775.8	775.8	775.2
35°	746.3	747.6	743.8	742.5
37.5°	714.9	713.1	713.7	712.4
40°	684.2	683.0	683.0	683.6
42.5°	652.9	653.5	654.7	654.7
45°	621.5	622.1	623.4	623.4
47.5°	592.0	590.8	592.0	590.8
50°	554.4	558.2	557.5	556.9
52.5°	516.1	514.9	517.4	516.8
55°	474.8	472.9	475.4	472.9
57.5°	428.3	429.0	429.0	427.7
60°	381.9	380.1	377.5	377.5
62.5°	328.0	322.4	318.6	321.1
65°	275.9	271.6	270.3	268.4
67.5°	234.6	229.5	227.7	227.0
70°	198.8	196.3	195.7	195.7
72.5°	168.7	168.7	166.8	165.6
75°	137.3	134.8	131.7	131.7
77.5°	102.9	102.2	101.6	101.6
80°	80.3	80.3	80.9	81.5
82.5°	60.2	60.8	61.5	61.5
85°	40.8	40.8	41.4	41.4
87.5°	22.0	22.0	22.0	21.3
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243625
 CATALOG NUMBER: S124RDRP-H1195D940-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	18.59	20.12	18.95	20.43	20.75	20.28	21.82	20.65	22.13	22.45
	3H	19.82	21.20	20.20	21.52	21.89	21.77	23.14	22.14	23.47	23.83
	4H	20.25	21.54	20.65	21.89	22.27	22.31	23.60	22.71	23.95	24.33
	6H	20.53	21.72	20.94	22.09	22.48	22.69	23.89	23.11	24.25	24.65
	8H	20.62	21.75	21.04	22.14	22.54	22.81	23.95	23.24	24.34	24.74
	12H	20.67	21.76	21.10	22.14	22.57	22.89	23.98	23.32	24.36	24.79
4H	2H	19.79	21.09	20.19	21.44	21.81	20.81	22.10	21.21	22.45	22.83
	3H	21.06	22.14	21.47	22.54	22.94	22.59	23.66	23.00	24.06	24.46
	4H	21.53	22.50	21.97	22.92	23.35	23.24	24.21	23.68	24.63	25.06
	6H	21.87	22.71	22.32	23.15	23.61	23.74	24.58	24.20	25.03	25.48
	8H	21.97	22.76	22.43	23.20	23.67	23.90	24.68	24.36	25.13	25.59
	12H	22.05	22.75	22.53	23.23	23.70	24.01	24.71	24.49	25.19	25.66
8H	4H	21.95	22.73	22.41	23.18	23.64	23.37	24.16	23.84	24.60	25.07
	6H	22.34	22.99	22.84	23.48	23.96	23.97	24.62	24.47	25.11	25.59
	8H	22.49	23.07	23.00	23.58	24.07	24.19	24.77	24.70	25.28	25.77
	12H	22.61	23.13	23.12	23.62	24.18	24.37	24.88	24.88	25.38	25.94
12H	4H	21.99	22.69	22.47	23.17	23.64	23.36	24.07	23.85	24.54	25.01
	6H	22.40	22.98	22.91	23.49	23.98	23.96	24.55	24.48	25.06	25.54
	8H	22.59	23.11	23.10	23.60	24.16	24.22	24.74	24.73	25.23	25.80