

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: P243615

Luminaire Tested: S124RDRP-H1195D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243615
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-H1195D930-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

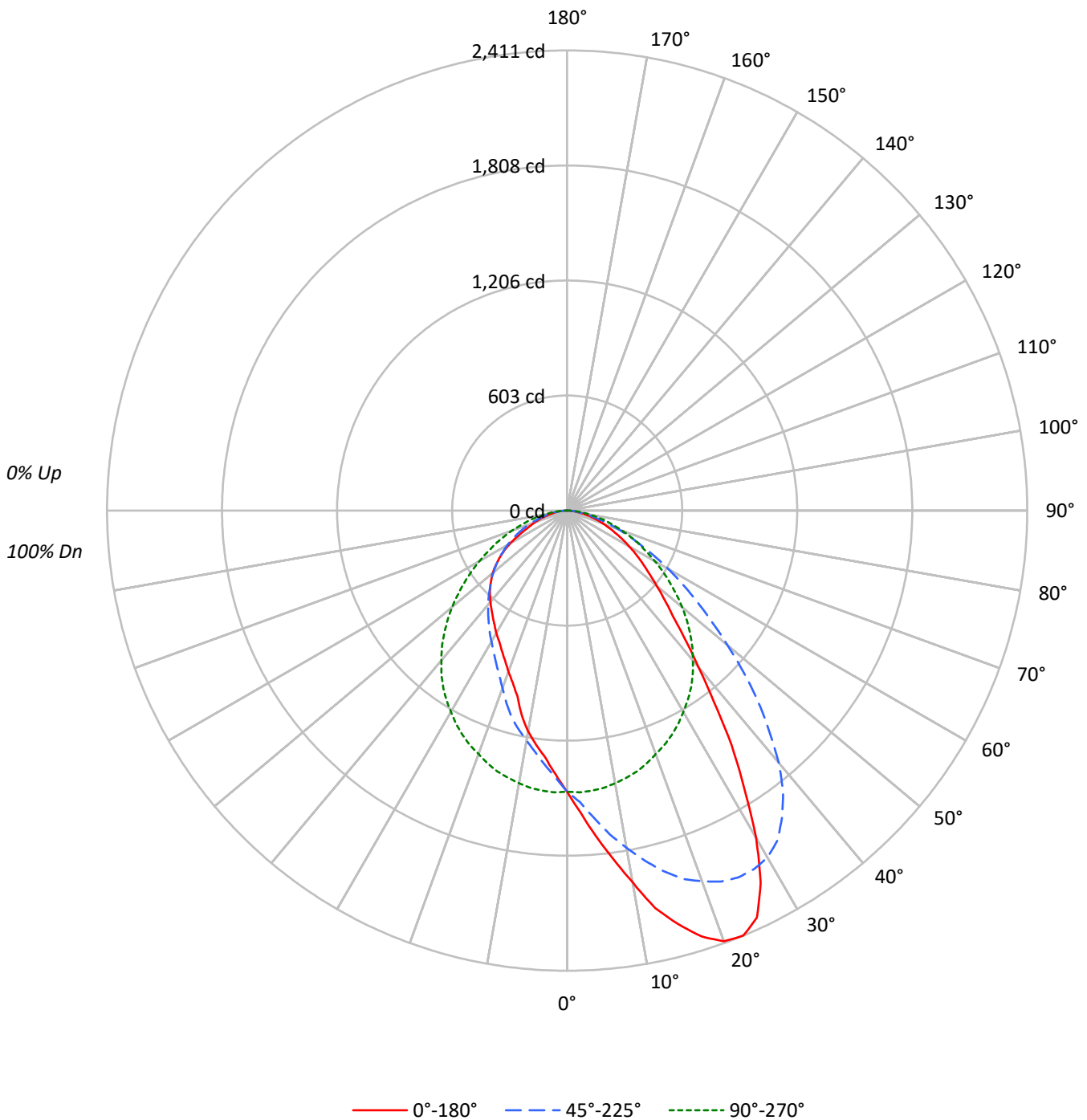
Lumens per Lamp: N/A
Luminaire Lumens: 3800.4 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.23 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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°	13089	13089	13089	13089	13089
5°	15247	14423	13144	11932	11604
10°	17856	16195	13089	11040	10610
15°	20632	18005	13023	10316	9266
20°	22716	19553	12839	9368	8495
25°	23081	20802	12721	8644	7941
30°	20317	21541	12494	8133	7616
35°	16302	21299	12283	7772	7367
40°	12402	20007	11890	7459	7252
45°	9847	17775	11453	7201	7165
50°	8453	15153	10887	6970	7042
55°	7465	12867	10183	6727	6700
60°	6688	10876	9449	6421	6137
65°	5885	8950	8731	5982	5161
70°	5245	7376	7929	5484	4650
75°	4568	5790	7209	4825	4135
80°	3875	4433	6194	4080	3814
85°	3396	3631	5324	3978	3855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 19130 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	3.8
10°-20°	433.3	11.4
20°-30°	676.2	17.8
30°-40°	754.1	19.8
40°-50°	677.9	17.8
50°-60°	535.6	14.1
60°-70°	355.7	9.4
70°-80°	178.3	4.7
80°-90°	46.5	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°	1252.4	33.0
0°-40°	2006.4	52.8
0°-60°	3219.9	84.7
0°-90°	3800.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1472	1472	1472	1472	1472	
5°	1709	1616	1473	1337	1300	171
15°	2242	1956	1415	1121	1007	637
25°	2353	2121	1297	881	810	1053
35°	1502	1963	1132	716	679	933
45°	783	1414	911	573	570	621
55°	482	830	657	434	432	434
65°	280	426	415	284	245	280
75°	133	169	210	140	120	142
85°	33	36	52	39	38	37
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°	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1581.5	1575.7	1575.1	1567.7	1567.1	1559.7	1557.4	1551.1	1538.5	1528.7	1529.3
5°	1708.8	1704.2	1703.6	1696.1	1693.8	1684.7	1670.3	1653.1	1633.1	1616.4	1605.5
7.5°	1839.5	1847.5	1838.9	1838.9	1822.3	1811.4	1783.3	1769.0	1734.6	1710.5	1685.2
10°	1978.3	1985.7	1982.3	1975.4	1953.6	1931.2	1902.0	1873.9	1832.0	1794.2	1769.0
12.5°	2133.1	2110.7	2125.0	2103.8	2086.1	2050.5	2022.4	1966.2	1933.0	1877.9	1828.6
15°	2242.0	2233.4	2232.8	2218.5	2199.0	2160.0	2129.6	2071.1	2014.4	1956.5	1900.8
17.5°	2339.5	2340.6	2332.6	2309.7	2284.5	2246.6	2205.3	2153.1	2088.3	2024.1	1958.2
20°	2401.4	2402.0	2396.3	2384.2	2356.7	2322.3	2279.9	2211.6	2138.2	2067.1	2001.2
22.5°	2410.6	2412.3	2410.6	2403.1	2384.2	2356.1	2317.1	2259.2	2185.3	2103.8	2025.3
25°	2353.3	2359.0	2359.6	2369.9	2360.1	2349.2	2320.6	2271.8	2203.6	2121.0	2035.6
27.5°	2196.1	2212.2	2227.1	2245.5	2262.1	2277.0	2279.3	2253.5	2195.0	2118.2	2036.7
30°	1979.4	1998.3	2028.1	2047.6	2099.2	2131.9	2176.1	2185.8	2157.7	2098.7	2020.1
32.5°	1727.1	1747.2	1758.6	1822.9	1896.8	1950.2	2023.6	2067.1	2078.0	2049.9	1985.7
35°	1502.3	1505.8	1514.4	1587.2	1660.6	1741.4	1832.6	1908.3	1959.9	1962.8	1931.2
37.5°	1261.5	1265.5	1299.3	1355.0	1418.6	1507.5	1612.4	1720.2	1814.8	1858.4	1849.2
40°	1068.8	1067.7	1103.8	1152.0	1213.9	1306.2	1414.6	1532.1	1633.1	1724.2	1746.0
42.5°	912.9	916.9	947.8	975.9	1035.6	1100.4	1216.2	1338.3	1467.9	1567.7	1634.2
45°	783.3	793.6	814.8	841.2	885.9	945.5	1040.2	1161.7	1294.2	1414.0	1493.7
47.5°	693.8	696.7	707.6	740.3	770.1	818.3	899.1	1002.3	1119.9	1254.0	1359.0
50°	611.3	618.1	622.1	641.6	670.9	716.8	779.3	856.1	972.5	1095.8	1227.1
52.5°	540.1	544.2	551.6	569.4	592.3	624.4	673.8	741.4	838.3	952.4	1076.3
55°	481.7	482.2	489.7	502.3	520.1	544.7	591.8	640.5	726.5	830.3	942.7
57.5°	428.9	425.5	432.3	439.8	457.0	478.2	508.6	558.5	625.6	713.9	815.4
60°	376.2	379.0	378.4	387.0	396.2	417.4	443.2	475.9	531.0	611.8	697.8
62.5°	326.8	326.3	332.0	337.2	343.5	360.7	381.9	408.8	451.8	511.5	594.6
65°	279.8	281.0	285.6	289.6	296.5	307.3	323.4	345.2	379.6	425.5	495.4
67.5°	237.4	241.4	243.7	244.8	251.2	259.2	272.9	290.7	314.2	350.9	409.4
70°	201.8	203.0	204.1	208.1	211.0	215.6	225.9	235.7	256.9	283.8	326.3
72.5°	168.6	167.4	170.9	172.0	173.2	177.8	184.1	189.2	203.0	225.9	252.3
75°	133.0	133.6	134.2	135.9	140.5	141.1	143.9	149.7	159.4	168.6	186.4
77.5°	99.8	101.5	100.9	102.6	104.4	106.1	107.2	112.4	119.3	126.7	135.3
80°	75.7	75.7	75.7	76.8	75.7	79.7	79.7	81.4	83.1	86.6	92.9
82.5°	51.6	52.8	53.3	53.9	54.5	54.5	55.0	56.2	58.5	59.6	61.4
85°	33.3	32.1	32.7	32.7	32.7	32.7	33.8	35.0	35.0	35.6	37.3
87.5°	14.9	14.9	14.9	14.9	14.3	14.9	15.5	15.5	16.1	16.1	17.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1525.8	1524.1	1515.5	1506.3	1497.7	1489.1	1486.3	1477.7	1467.3	1458.2	1447.9
5°	1594.1	1580.3	1561.4	1541.9	1521.8	1503.5	1489.1	1473.1	1454.7	1432.9	1415.7
7.5°	1662.9	1637.6	1606.7	1578.0	1543.6	1516.1	1488.6	1465.6	1439.3	1408.3	1384.8
10°	1730.0	1688.1	1650.3	1605.0	1561.4	1523.5	1488.6	1450.1	1415.2	1381.9	1349.2
12.5°	1783.3	1741.4	1687.0	1631.3	1575.1	1525.8	1478.8	1433.5	1389.9	1349.8	1313.7
15°	1844.1	1783.9	1716.8	1655.4	1578.6	1517.8	1463.9	1415.2	1365.3	1316.5	1277.0
17.5°	1888.8	1817.7	1734.6	1664.0	1590.1	1514.4	1449.6	1388.2	1330.9	1279.8	1239.1
20°	1923.2	1838.9	1755.8	1666.3	1578.0	1500.6	1427.8	1357.3	1299.3	1243.7	1200.7
22.5°	1938.1	1849.2	1756.9	1660.0	1566.0	1478.2	1402.6	1329.7	1264.4	1207.0	1157.1
25°	1944.4	1846.9	1751.2	1641.1	1545.9	1456.5	1372.2	1297.0	1230.0	1165.2	1115.8
27.5°	1939.3	1834.9	1724.8	1621.0	1513.2	1425.5	1336.0	1259.8	1189.8	1127.3	1072.3
30°	1925.5	1807.4	1697.9	1581.5	1477.7	1385.4	1298.2	1217.3	1146.8	1083.2	1028.7
32.5°	1889.9	1776.4	1652.0	1538.5	1426.6	1335.5	1256.3	1176.6	1105.0	1038.4	985.7
35°	1845.8	1734.6	1604.4	1485.7	1375.0	1282.7	1203.0	1131.9	1061.4	990.8	936.9
37.5°	1790.2	1677.2	1551.6	1423.8	1315.4	1225.9	1153.1	1081.4	1011.5	946.7	886.5
40°	1715.1	1611.8	1485.7	1357.3	1248.3	1162.3	1090.6	1024.7	962.7	899.1	834.3
42.5°	1621.6	1543.0	1412.9	1286.2	1179.5	1094.1	1030.4	971.4	911.7	846.3	787.9
45°	1521.8	1454.7	1336.6	1208.7	1107.2	1024.1	963.3	911.1	854.9	797.0	735.7
47.5°	1409.4	1359.5	1257.5	1130.8	1024.1	953.0	896.8	849.2	798.2	746.6	686.9
50°	1282.7	1252.3	1165.2	1049.9	948.4	876.2	829.7	787.3	743.7	692.1	641.1
52.5°	1156.0	1150.3	1068.8	967.3	871.6	804.5	759.2	720.2	684.6	635.9	592.9
55°	1023.0	1040.2	972.5	879.0	793.6	728.8	688.7	657.1	626.2	584.9	543.6
57.5°	904.8	924.3	877.9	791.9	712.2	657.1	622.7	594.0	567.1	529.3	501.7
60°	774.1	809.7	785.0	706.4	635.9	586.6	554.5	531.5	509.2	476.5	452.4
62.5°	670.9	695.5	681.2	622.7	560.2	520.1	491.4	470.2	452.4	427.2	403.7
65°	560.2	591.2	583.7	545.3	490.3	453.6	431.8	415.1	396.8	376.7	357.2
67.5°	460.4	492.6	490.8	464.5	423.7	393.4	372.7	360.7	345.8	326.3	314.2
70°	370.4	400.2	401.4	388.2	359.5	330.9	315.9	305.1	293.6	279.2	270.6
72.5°	287.9	314.8	319.4	313.1	294.7	275.8	262.6	255.2	245.4	233.4	225.9
75°	215.0	234.5	245.4	242.6	235.1	222.5	215.0	209.9	200.1	191.5	185.2
77.5°	153.1	168.6	179.5	184.1	180.6	175.5	168.6	164.6	154.2	150.2	146.8
80°	102.6	116.4	126.1	129.0	130.7	129.6	123.3	121.0	115.8	114.1	110.7
82.5°	63.1	70.5	77.4	84.9	88.3	88.3	84.9	85.4	80.9	78.6	77.4
85°	38.4	40.1	41.3	47.0	51.6	53.3	51.6	52.2	50.5	48.7	47.0
87.5°	17.8	17.8	18.3	19.5	20.6	24.1	25.2	27.0	24.7	24.7	20.6
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°	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1441.5	1434.1	1428.4	1419.2	1411.7	1399.7	1395.7	1395.7	1398.0	1395.1	1398.0
5°	1403.7	1389.9	1375.0	1361.8	1347.5	1337.2	1326.9	1324.6	1323.4	1316.5	1317.1
7.5°	1365.9	1347.5	1328.6	1311.4	1293.6	1277.6	1266.7	1262.1	1258.1	1253.5	1248.3
10°	1325.1	1303.9	1281.6	1262.1	1244.9	1223.1	1212.2	1208.7	1197.3	1195.0	1187.0
12.5°	1282.1	1260.3	1238.0	1212.8	1196.1	1174.9	1158.9	1151.4	1140.5	1132.5	1120.4
15°	1248.3	1220.8	1191.0	1166.3	1144.5	1121.0	1099.2	1084.9	1070.6	1048.2	1037.3
17.5°	1206.4	1174.9	1149.1	1122.7	1091.2	1056.8	1031.0	1009.8	994.3	975.9	965.0
20°	1161.1	1131.9	1099.8	1062.5	1029.3	990.3	966.8	949.0	936.9	926.1	920.3
22.5°	1121.0	1087.2	1043.0	1007.5	961.0	930.1	911.1	899.7	888.2	876.7	871.0
25°	1077.4	1037.9	984.0	940.4	905.4	881.3	863.0	852.1	840.0	833.2	824.6
27.5°	1034.4	983.4	929.5	889.9	862.4	834.3	818.8	810.2	801.0	791.3	784.4
30°	982.2	924.3	879.6	843.5	816.0	792.4	781.0	768.4	760.3	754.6	750.6
32.5°	927.8	872.2	831.4	800.5	773.5	755.8	741.4	733.4	726.5	720.2	715.6
35°	876.7	822.8	788.4	758.6	736.3	716.2	705.3	697.8	692.1	686.9	684.6
37.5°	826.3	780.4	743.1	719.6	696.1	680.1	669.7	662.9	659.4	654.3	654.8
40°	776.4	735.1	705.3	678.3	656.6	642.8	634.8	631.9	626.7	625.0	626.7
42.5°	731.7	693.8	665.2	639.9	621.0	607.8	601.5	597.5	595.8	595.2	595.8
45°	688.1	652.5	625.0	604.4	584.9	572.8	567.7	564.8	563.1	566.0	566.5
47.5°	644.5	612.4	587.7	563.7	547.6	539.0	533.8	531.5	533.3	534.4	538.4
50°	601.5	571.7	545.9	524.7	512.1	504.0	502.3	498.3	501.2	502.9	505.7
52.5°	557.9	531.0	508.0	488.0	474.8	469.6	465.6	463.9	467.9	467.9	470.8
55°	513.8	490.3	469.0	450.7	440.4	434.1	431.2	428.9	431.2	431.8	431.2
57.5°	472.5	450.1	427.8	412.3	403.7	396.8	393.9	392.8	392.2	394.5	393.9
60°	428.9	407.7	389.9	373.9	365.3	361.2	354.9	356.1	356.1	356.1	350.4
62.5°	385.3	364.1	348.6	337.7	327.4	320.5	319.4	317.7	314.2	313.7	306.2
65°	340.6	324.5	311.4	300.5	290.1	284.4	282.7	277.5	273.5	266.1	260.9
67.5°	299.3	287.9	272.4	263.2	254.6	247.7	241.4	237.4	229.4	221.9	217.3
70°	258.0	246.0	235.7	225.9	217.3	211.0	203.6	196.1	190.9	186.4	182.9
72.5°	216.7	206.4	197.8	188.7	179.5	173.2	167.4	161.7	159.4	157.1	155.4
75°	178.3	168.6	160.6	153.1	147.9	140.5	137.6	135.3	133.0	130.2	126.7
77.5°	141.1	133.6	127.3	121.0	116.4	112.4	110.1	103.2	97.5	96.3	95.2
80°	104.9	99.2	95.2	90.6	85.4	79.7	78.0	75.7	74.5	74.5	75.1
82.5°	73.4	70.0	65.4	61.4	59.6	57.3	57.3	56.8	56.2	56.8	56.8
85°	44.7	40.1	39.0	38.4	39.0	39.0	39.0	39.0	38.4	39.0	37.8
87.5°	19.5	21.2	21.8	20.1	20.6	19.5	20.1	20.1	20.1	20.6	20.1
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: P243615

CATALOG NUMBER: S124RDRP-H1195D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1472.5	1472.5	1472.5	1472.5
2.5°	1394.5	1394.5	1388.8	1384.2
5°	1316.0	1308.5	1307.4	1300.5
7.5°	1242.6	1241.4	1238.6	1238.6
10°	1184.1	1180.1	1176.1	1175.5
12.5°	1101.5	1107.2	1100.4	1098.6
15°	1029.3	1024.7	1018.9	1006.9
17.5°	962.2	953.6	951.3	946.1
20°	909.4	903.1	900.8	898.0
22.5°	859.5	858.4	851.5	849.8
25°	822.8	817.1	812.5	809.7
27.5°	782.7	778.7	776.4	771.8
30°	746.0	744.9	742.0	742.0
32.5°	712.7	709.3	709.3	708.7
35°	682.4	683.5	680.1	678.9
37.5°	653.7	652.0	652.5	651.4
40°	625.6	624.4	624.4	625.0
42.5°	596.9	597.5	598.6	598.6
45°	568.2	568.8	570.0	570.0
47.5°	541.3	540.1	541.3	540.1
50°	506.9	510.3	509.8	509.2
52.5°	471.9	470.8	473.1	472.5
55°	434.1	432.3	434.6	432.3
57.5°	391.6	392.2	392.2	391.1
60°	349.2	347.5	345.2	345.2
62.5°	299.9	294.7	291.3	293.6
65°	252.3	248.3	247.1	245.4
67.5°	214.5	209.9	208.1	207.6
70°	181.8	179.5	178.9	178.9
72.5°	154.2	154.2	152.5	151.4
75°	125.6	123.3	120.4	120.4
77.5°	94.0	93.5	92.9	92.9
80°	73.4	73.4	74.0	74.5
82.5°	55.0	55.6	56.2	56.2
85°	37.3	37.3	37.8	37.8
87.5°	20.1	20.1	20.1	19.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243615
 CATALOG NUMBER: S124RDRP-H1195D930-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	19.81	18.64	20.12	20.44	19.97	21.51	20.34	21.82	22.13
	3H	19.51	20.89	19.89	21.21	21.57	21.45	22.83	21.83	23.16	23.52
	4H	19.94	21.23	20.34	21.58	21.96	22.00	23.29	22.39	23.64	24.01
	6H	20.22	21.41	20.63	21.78	22.17	22.38	23.58	22.80	23.94	24.34
	8H	20.30	21.44	20.73	21.83	22.23	22.50	23.64	22.93	24.03	24.43
	12H	20.36	21.45	20.79	21.83	22.26	22.58	23.67	23.01	24.05	24.48
4H	2H	19.48	20.78	19.88	21.12	21.50	20.50	21.79	20.90	22.14	22.52
	3H	20.75	21.83	21.16	22.22	22.63	22.28	23.35	22.69	23.75	24.15
	4H	21.22	22.19	21.66	22.60	23.04	22.93	23.90	23.37	24.31	24.75
	6H	21.56	22.40	22.01	22.84	23.30	23.43	24.27	23.89	24.71	25.17
	8H	21.66	22.44	22.12	22.89	23.35	23.59	24.37	24.05	24.82	25.28
	12H	21.73	22.44	22.22	22.91	23.38	23.70	24.40	24.18	24.88	25.35
8H	4H	21.63	22.42	22.10	22.86	23.33	23.06	23.85	23.52	24.29	24.76
	6H	22.03	22.68	22.53	23.17	23.65	23.66	24.31	24.16	24.80	25.28
	8H	22.18	22.76	22.69	23.27	23.76	23.88	24.46	24.39	24.97	25.46
	12H	22.30	22.81	22.81	23.31	23.87	24.06	24.57	24.57	25.06	25.63
12H	4H	21.68	22.38	22.16	22.86	23.33	23.05	23.75	23.53	24.23	24.70
	6H	22.09	22.67	22.60	23.18	23.67	23.65	24.24	24.17	24.75	25.23
	8H	22.28	22.80	22.79	23.29	23.85	23.91	24.43	24.42	24.92	25.49