

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: P242764

Luminaire Tested: S124RDRP-S1020D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242764
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-S1020D940-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

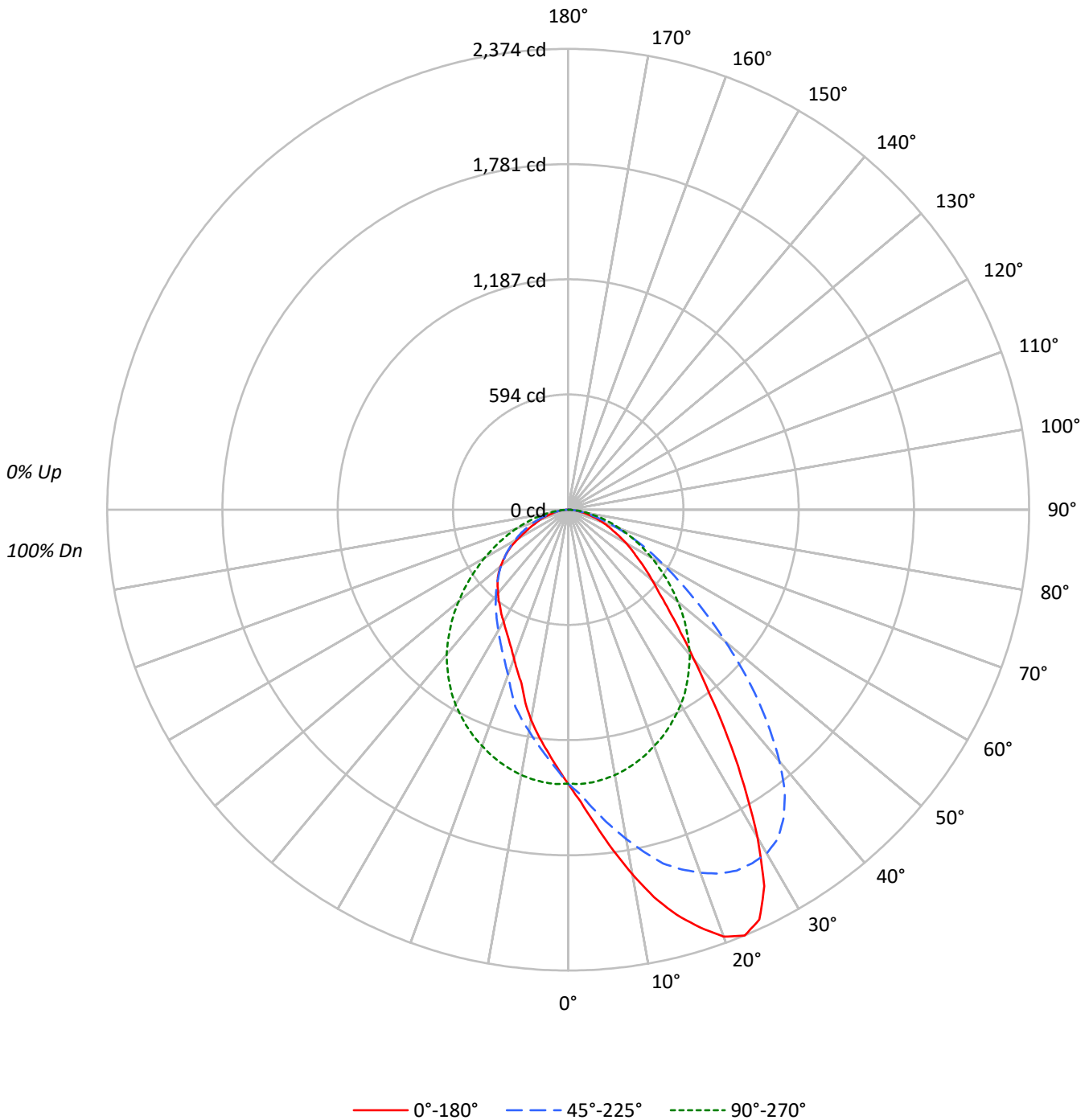
Lumens per Lamp: N/A
Luminaire Lumens: 3567.4 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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	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°	12544	12544	12544	12544	12544
5°	14551	13850	12582	11385	11121
10°	17213	15550	12527	10464	9925
15°	19883	17360	12411	9669	8529
20°	22138	18824	12252	8551	7712
25°	22852	20120	12095	7880	7161
30°	20006	20986	11905	7383	6828
35°	15573	20996	11624	7009	6627
40°	11678	19641	11302	6709	6519
45°	9221	17333	10786	6454	6461
50°	7784	14585	10190	6235	6274
55°	6785	12089	9534	6001	5939
60°	6105	10117	8855	5660	5257
65°	5382	8430	8121	5273	4520
70°	4847	6739	7360	4759	4078
75°	4063	5234	6522	4180	3476
80°	3435	3957	5559	3466	3261
85°	2896	3131	4345	3070	2896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 18512 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.8
10°-20°	412.6	11.6
20°-30°	646.4	18.1
30°-40°	717.8	20.1
40°-50°	636.1	17.8
50°-60°	495.7	13.9
60°-70°	324.2	9.1
70°-80°	159.1	4.5
80°-90°	38.7	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°	1195.7	33.5
0°-40°	1913.5	53.6
0°-60°	3045.3	85.4
0°-90°	3567.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1411	1411	1411	1411	1411	
5°	1631	1552	1410	1276	1246	164
15°	2161	1886	1349	1051	927	615
25°	2330	2051	1233	803	730	1040
35°	1435	1935	1071	646	611	898
45°	734	1379	858	513	514	578
55°	438	780	615	387	383	398
65°	256	401	386	251	215	257
75°	118	152	190	122	101	130
85°	28	31	43	30	28	33
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°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1507.9	1513.0	1507.9	1507.3	1501.6	1499.9	1497.6	1490.2	1476.6	1468.6	1470.3
5°	1630.7	1644.9	1636.9	1635.8	1623.3	1610.8	1602.8	1584.6	1565.3	1552.2	1541.4
7.5°	1767.1	1775.7	1770.0	1763.7	1742.1	1735.3	1716.5	1694.9	1662.5	1638.1	1615.9
10°	1907.0	1913.8	1911.6	1896.8	1882.0	1851.9	1834.8	1801.3	1757.5	1722.8	1690.4
12.5°	2044.6	2052.0	2027.5	2032.1	2000.8	1978.6	1949.1	1904.7	1852.4	1805.2	1762.6
15°	2160.6	2151.5	2151.5	2140.1	2108.9	2075.9	2048.0	2003.7	1940.0	1886.5	1830.3
17.5°	2256.1	2260.1	2255.5	2226.5	2203.8	2170.3	2120.2	2069.6	2014.5	1942.8	1887.1
20°	2340.3	2340.3	2335.1	2317.0	2285.1	2248.7	2193.6	2137.3	2062.2	1990.0	1925.2
22.5°	2374.4	2376.7	2370.4	2356.2	2328.3	2293.1	2248.2	2190.7	2112.8	2029.3	1945.1
25°	2330.0	2340.8	2342.0	2338.0	2329.5	2307.9	2267.5	2208.9	2139.6	2051.4	1965.0
27.5°	2186.7	2201.0	2206.6	2219.2	2242.5	2251.0	2245.9	2206.6	2139.6	2052.6	1966.7
30°	1949.1	1960.5	1997.4	2045.7	2083.3	2117.4	2146.9	2154.9	2120.8	2044.6	1953.1
32.5°	1685.3	1701.8	1738.7	1791.6	1860.4	1924.1	1999.7	2040.1	2047.4	2009.4	1926.3
35°	1435.1	1446.5	1480.6	1535.2	1610.2	1696.1	1801.3	1883.1	1938.8	1934.9	1883.1
37.5°	1195.1	1211.1	1245.8	1290.7	1364.6	1474.3	1573.8	1683.6	1783.6	1832.5	1806.4
40°	1006.4	1007.0	1040.5	1087.1	1155.3	1248.0	1358.9	1484.0	1598.8	1692.7	1710.8
42.5°	857.4	857.4	876.7	927.9	972.3	1058.1	1162.7	1286.7	1426.0	1538.0	1593.7
45°	733.5	738.6	756.8	786.9	825.6	899.5	984.2	1099.6	1250.3	1378.8	1459.0
47.5°	635.7	644.8	655.6	682.9	714.7	766.4	838.7	946.7	1071.8	1214.5	1325.4
50°	562.9	564.0	578.8	592.5	619.2	658.4	719.8	806.2	918.8	1054.7	1181.5
52.5°	500.3	499.8	507.2	525.4	545.8	574.3	620.9	697.6	794.3	912.6	1044.5
55°	437.8	440.6	447.5	461.1	477.6	499.2	538.4	597.6	676.0	780.1	898.9
57.5°	390.0	391.7	398.0	403.1	419.0	435.0	466.8	509.4	578.2	665.2	781.8
60°	343.4	344.0	345.7	354.2	366.2	380.9	400.8	435.5	491.3	569.1	656.7
62.5°	297.9	299.1	301.9	307.6	316.1	325.2	346.3	372.4	416.2	479.9	556.6
65°	255.9	256.4	260.4	262.7	270.1	279.2	294.5	313.3	345.1	400.8	460.5
67.5°	220.6	220.6	220.6	224.0	229.7	236.0	246.2	262.1	287.7	323.5	379.2
70°	186.5	186.5	187.6	189.3	192.2	197.3	202.4	213.8	231.4	259.3	299.6
72.5°	154.7	155.2	156.4	156.4	157.5	161.5	164.9	171.1	183.1	202.4	233.1
75°	118.3	120.0	122.8	125.1	127.9	127.4	131.3	135.9	139.9	152.4	171.1
77.5°	93.2	92.1	92.1	94.4	95.0	95.5	98.4	102.3	105.8	112.6	119.4
80°	67.1	67.1	68.8	69.4	68.8	69.4	72.2	73.9	75.1	77.3	83.6
82.5°	46.6	47.8	46.6	47.2	47.8	48.3	50.6	50.6	51.7	52.3	54.0
85°	28.4	29.0	29.6	28.4	28.4	28.4	29.6	30.1	31.3	30.7	31.8
87.5°	12.5	11.9	12.5	12.5	13.1	12.5	13.1	14.2	13.1	13.6	13.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1464.7	1456.7	1452.7	1443.6	1432.8	1427.1	1422.0	1414.6	1405.0	1394.7	1387.3
5°	1527.8	1514.1	1497.1	1476.6	1458.4	1440.8	1425.4	1410.1	1392.4	1374.3	1356.1
7.5°	1590.3	1565.9	1539.7	1508.4	1478.3	1450.4	1425.4	1401.0	1373.1	1348.1	1324.8
10°	1656.3	1619.9	1579.5	1536.9	1494.2	1457.3	1420.9	1387.9	1351.5	1319.1	1291.8
12.5°	1709.7	1665.4	1614.8	1559.0	1505.6	1459.0	1415.8	1370.3	1327.6	1291.8	1253.1
15°	1770.0	1711.4	1646.0	1582.4	1515.8	1455.0	1398.7	1348.7	1301.5	1252.0	1217.3
17.5°	1811.5	1743.8	1666.5	1592.6	1516.4	1445.9	1382.2	1324.2	1270.2	1220.7	1179.8
20°	1847.9	1771.1	1683.0	1596.0	1507.9	1431.1	1361.2	1295.2	1238.9	1184.3	1141.7
22.5°	1868.3	1781.4	1683.0	1590.9	1498.8	1414.1	1335.6	1266.2	1203.7	1149.1	1100.8
25°	1869.5	1778.5	1680.1	1575.5	1475.5	1387.3	1307.7	1233.2	1165.0	1110.4	1060.4
27.5°	1864.9	1759.7	1660.8	1554.5	1451.6	1357.8	1275.3	1196.3	1128.6	1070.6	1019.5
30°	1851.3	1736.4	1628.4	1517.0	1412.3	1323.1	1234.9	1159.9	1088.8	1028.0	976.2
32.5°	1821.7	1708.0	1589.7	1474.9	1368.6	1275.9	1193.4	1117.8	1048.5	985.9	930.2
35°	1780.8	1665.4	1539.1	1422.0	1318.0	1222.4	1144.0	1071.2	1004.7	938.2	880.2
37.5°	1733.6	1613.1	1488.5	1360.0	1256.6	1165.6	1092.2	1022.3	957.5	896.6	832.4
40°	1660.8	1553.4	1423.7	1296.4	1189.5	1102.5	1035.9	974.0	908.6	848.3	784.1
42.5°	1572.7	1485.1	1353.8	1225.9	1120.7	1037.7	976.8	916.5	858.6	800.6	732.9
45°	1472.6	1403.2	1280.4	1157.6	1051.3	968.3	911.4	858.0	805.7	750.0	686.8
47.5°	1361.2	1310.0	1203.1	1074.6	975.1	898.9	844.3	800.0	753.9	697.6	640.8
50°	1244.0	1213.9	1111.6	996.7	902.9	834.1	777.8	736.9	699.9	646.5	597.0
52.5°	1119.0	1106.5	1024.0	915.4	825.6	758.5	712.4	676.6	639.1	597.0	551.5
55°	991.6	1000.1	926.8	831.8	746.5	689.7	645.9	615.2	583.4	545.8	510.0
57.5°	859.1	891.5	836.9	751.1	668.6	615.2	581.7	554.4	527.6	495.8	463.4
60°	742.6	768.7	740.9	667.5	597.6	548.7	518.0	498.1	471.4	442.9	419.6
62.5°	628.8	657.3	643.6	587.9	524.2	483.9	457.7	439.5	421.3	397.4	373.0
65°	537.3	555.5	547.5	506.6	460.5	424.7	399.7	386.1	367.9	349.7	328.1
67.5°	429.8	465.7	460.0	437.2	392.9	364.5	346.8	334.3	317.3	303.6	288.3
70°	338.3	370.7	370.1	352.5	330.9	304.8	293.4	283.2	268.4	255.3	243.4
72.5°	261.5	290.5	296.2	283.7	270.6	252.4	241.6	235.4	221.2	213.2	204.1
75°	193.9	215.5	221.2	221.2	214.4	204.1	194.5	189.9	179.7	171.7	166.0
77.5°	136.5	151.2	159.8	161.5	162.0	158.1	149.0	145.6	137.6	134.8	128.5
80°	89.8	98.9	109.2	112.6	115.4	114.3	110.9	108.6	101.2	98.4	96.1
82.5°	55.2	59.1	67.1	75.6	73.9	77.9	75.1	73.3	68.2	67.7	65.4
85°	32.4	33.0	34.1	39.2	42.1	43.2	43.8	42.6	40.9	40.9	37.0
87.5°	13.6	13.1	14.2	14.2	14.8	17.1	18.8	19.3	17.6	15.9	14.2
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°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1379.4	1373.7	1366.3	1357.8	1347.5	1338.4	1334.5	1337.9	1339.6	1335.0	1334.5
5°	1343.5	1329.3	1318.0	1300.9	1287.3	1275.9	1267.9	1264.5	1265.7	1256.6	1254.3
7.5°	1303.7	1288.4	1269.6	1250.3	1232.1	1216.2	1207.7	1203.7	1194.0	1190.0	1183.8
10°	1265.7	1242.9	1224.7	1200.8	1179.2	1159.3	1149.7	1141.7	1132.0	1127.5	1117.8
12.5°	1226.4	1199.1	1178.7	1153.6	1131.5	1106.5	1097.4	1080.9	1064.4	1053.6	1040.5
15°	1190.0	1158.2	1133.7	1104.2	1078.0	1050.7	1026.3	999.0	988.8	967.2	954.6
17.5°	1146.8	1113.8	1086.6	1048.5	1009.2	976.2	949.0	920.5	905.2	890.4	884.1
20°	1104.2	1074.6	1032.5	986.5	941.6	904.0	883.0	865.9	848.9	839.2	832.4
22.5°	1063.8	1024.0	973.4	922.8	877.9	850.6	833.5	815.9	802.8	793.7	784.1
25°	1017.8	968.3	916.5	859.7	829.0	803.4	784.1	769.9	761.3	749.4	744.8
27.5°	972.8	913.1	854.6	815.9	784.1	759.6	742.0	731.8	720.4	712.4	706.2
30°	919.4	858.6	807.4	771.0	738.6	719.3	705.6	693.1	684.6	678.3	673.8
32.5°	866.5	805.7	764.7	724.9	701.1	682.3	667.5	659.0	652.7	644.2	641.9
35°	815.9	761.9	724.4	689.1	663.0	645.9	634.5	624.9	619.2	616.9	615.2
37.5°	766.4	721.5	680.0	651.6	627.1	614.1	599.3	594.7	590.8	585.6	587.9
40°	719.8	678.3	642.5	611.8	593.0	578.2	570.3	564.6	561.2	561.2	561.2
42.5°	679.4	639.1	604.4	577.7	558.9	547.0	537.9	533.3	532.8	532.2	535.6
45°	637.4	599.8	564.6	541.9	525.9	513.4	508.3	504.3	504.3	506.6	507.2
47.5°	595.3	560.0	531.6	505.5	490.7	482.7	478.2	475.9	475.9	478.7	481.0
50°	557.2	522.5	494.7	471.9	458.3	450.9	446.9	445.8	446.9	446.9	450.9
52.5°	515.7	485.6	458.3	440.1	424.2	417.3	415.6	413.9	414.5	416.8	417.9
55°	475.3	447.5	421.3	403.1	391.7	387.2	382.1	382.7	381.5	382.7	382.7
57.5°	434.4	409.9	384.4	369.6	359.9	353.1	347.4	349.1	347.4	347.4	346.8
60°	395.2	367.9	348.5	335.5	324.1	318.4	313.3	314.4	312.7	311.6	309.3
62.5°	352.5	330.9	312.7	300.2	291.7	284.9	279.7	278.0	273.5	268.9	263.3
65°	311.6	292.8	276.3	264.4	255.9	250.7	246.8	243.4	234.8	225.7	221.2
67.5°	271.2	257.6	241.6	231.4	224.6	217.8	210.4	204.1	195.6	189.9	187.1
70°	232.5	219.5	206.4	196.7	189.3	183.1	174.6	170.6	164.9	162.6	159.8
72.5°	195.6	183.7	171.7	163.2	155.2	150.7	144.4	140.4	138.7	138.2	135.3
75°	158.1	148.4	139.3	131.3	125.1	121.7	118.8	116.0	114.9	109.7	106.9
77.5°	121.7	114.9	109.2	102.9	98.9	96.7	90.4	86.4	84.1	81.3	80.7
80°	89.8	85.3	79.6	76.2	69.9	67.7	65.4	64.8	64.2	63.7	63.1
82.5°	62.0	57.4	51.7	50.0	49.5	48.3	47.2	46.6	46.1	46.6	46.6
85°	34.1	31.8	31.8	31.3	30.7	30.1	29.6	29.6	29.0	29.6	29.0
87.5°	14.2	13.6	13.6	12.5	13.1	13.1	12.5	12.5	13.1	11.9	11.9
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: P242764

CATALOG NUMBER: S124RDRP-S1020D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1411.2	1411.2	1411.2	1411.2
2.5°	1331.0	1332.2	1328.2	1327.1
5°	1249.7	1248.6	1245.8	1246.3
7.5°	1179.2	1175.2	1178.1	1173.5
10°	1115.5	1109.3	1104.2	1099.6
12.5°	1028.6	1023.4	1016.0	1018.9
15°	947.2	938.7	925.1	926.8
17.5°	874.5	875.6	867.6	869.9
20°	820.5	816.5	817.0	815.3
22.5°	782.9	777.8	772.7	768.7
25°	739.7	736.3	731.2	730.1
27.5°	701.6	701.1	698.8	695.9
30°	669.2	668.1	666.9	665.2
32.5°	640.2	639.6	638.5	639.1
35°	612.9	612.4	611.2	610.7
37.5°	587.3	589.0	587.9	587.9
40°	560.6	561.2	562.3	561.8
42.5°	538.4	538.4	540.1	537.9
45°	511.2	514.6	514.0	514.0
47.5°	482.2	486.1	486.7	486.7
50°	453.7	452.6	454.3	453.7
52.5°	419.0	419.6	419.0	418.5
55°	383.2	383.8	382.7	383.2
57.5°	345.1	342.9	344.6	343.4
60°	303.6	299.1	297.9	295.7
62.5°	257.0	254.2	249.6	252.4
65°	216.6	214.4	212.6	214.9
67.5°	184.2	183.1	183.1	181.9
70°	159.8	158.1	158.1	156.9
72.5°	134.8	133.0	133.6	133.0
75°	103.5	100.6	100.6	101.2
77.5°	80.7	80.2	81.3	79.6
80°	63.1	62.5	62.0	63.7
82.5°	45.5	45.5	45.5	47.8
85°	29.6	28.4	29.6	28.4
87.5°	13.1	12.5	11.9	12.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242764
 CATALOG NUMBER: S124RDRP-S1020D940-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	17.89	19.41	18.25	19.73	20.04	19.71	21.23	20.07	21.54	21.86
	3H	19.12	20.48	19.49	20.81	21.17	21.16	22.53	21.54	22.85	23.22
	4H	19.55	20.83	19.95	21.18	21.56	21.68	22.96	22.08	23.31	23.68
	6H	19.82	21.00	20.23	21.37	21.76	22.03	23.21	22.44	23.58	23.97
	8H	19.90	21.03	20.33	21.42	21.82	22.13	23.26	22.56	23.65	24.05
	12H	19.95	21.03	20.38	21.41	21.84	22.19	23.27	22.62	23.65	24.08
4H	2H	19.15	20.43	19.55	20.78	21.16	20.21	21.50	20.61	21.84	22.22
	3H	20.38	21.45	20.80	21.85	22.25	21.96	23.02	22.37	23.42	23.82
	4H	20.85	21.80	21.28	22.22	22.66	22.58	23.54	23.02	23.95	24.39
	6H	21.17	22.00	21.63	22.45	22.90	23.04	23.87	23.50	24.31	24.77
	8H	21.27	22.04	21.73	22.49	22.95	23.18	23.95	23.64	24.40	24.86
	12H	21.34	22.03	21.82	22.51	22.98	23.27	23.96	23.75	24.44	24.91
8H	4H	21.25	22.03	21.71	22.47	22.94	22.70	23.47	23.16	23.91	24.38
	6H	21.64	22.28	22.13	22.77	23.25	23.24	23.88	23.73	24.37	24.85
	8H	21.77	22.35	22.29	22.86	23.35	23.43	24.00	23.94	24.51	25.00
	12H	21.88	22.39	22.39	22.88	23.45	23.57	24.08	24.08	24.57	25.14
12H	4H	21.29	21.98	21.77	22.46	22.93	22.68	23.38	23.17	23.85	24.33
	6H	21.68	22.26	22.20	22.77	23.26	23.23	23.80	23.74	24.31	24.80
	8H	21.87	22.37	22.38	22.87	23.43	23.46	23.96	23.97	24.46	25.02