

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: P242734

Luminaire Tested: S124RDRP-S1020D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242734
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-S1020D927-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

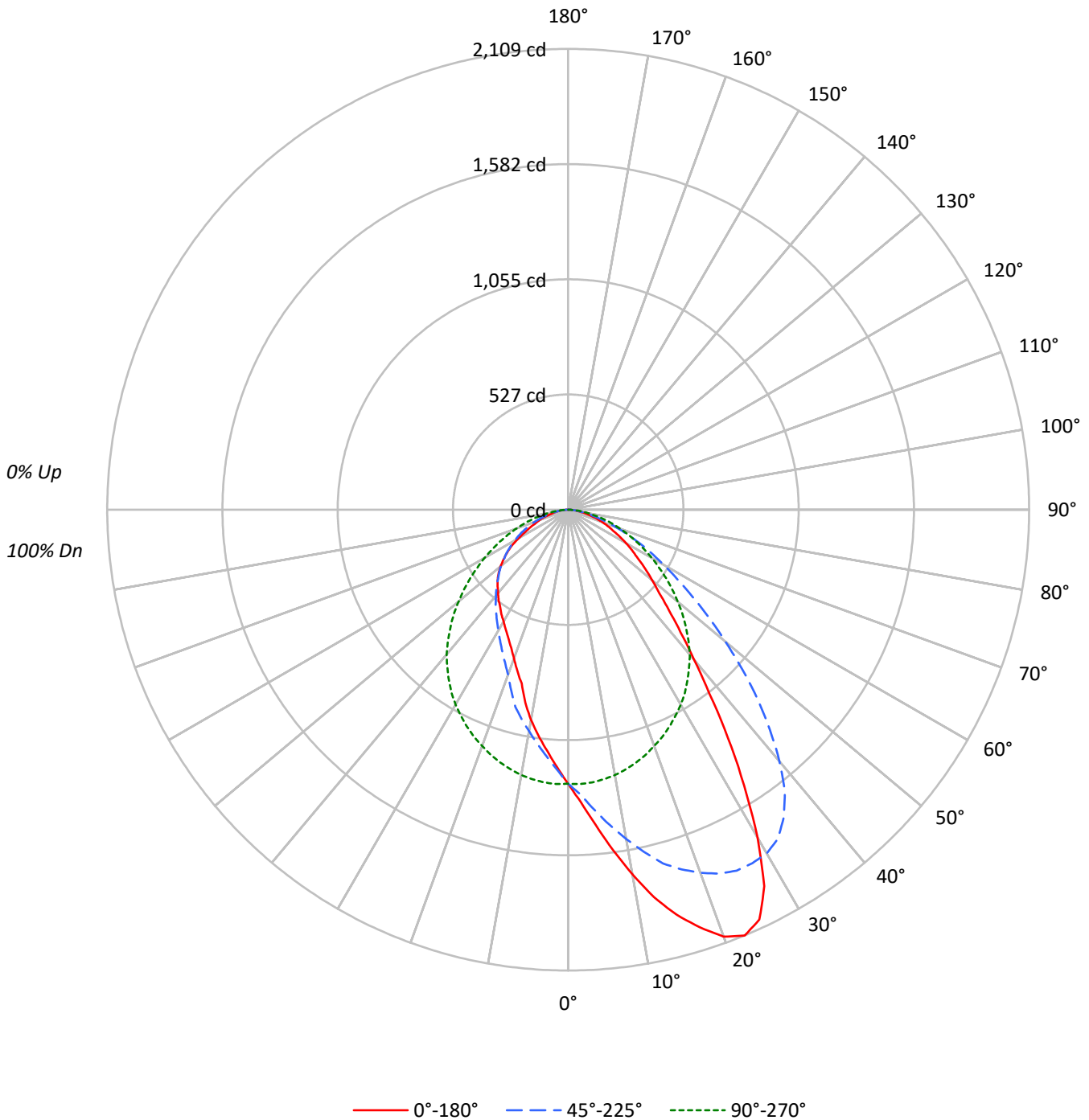
Lumens per Lamp: N/A
Luminaire Lumens: 3169.2 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P242734

CATALOG NUMBER: S124RDRP-S1020D927-X4F0-XX-UDD-A-W

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°	11144	11144	11144	11144	11144
5°	12927	12305	11178	10114	9879
10°	15292	13814	11129	9296	8818
15°	17663	15423	11025	8591	7576
20°	19667	16723	10885	7597	6851
25°	20302	17875	10745	7000	6361
30°	17772	18644	10576	6559	6066
35°	13834	18652	10326	6227	5887
40°	10375	17448	10041	5961	5791
45°	8191	15398	9581	5734	5740
50°	6916	12957	9052	5540	5574
55°	6027	10740	8469	5331	5275
60°	5424	8988	7867	5029	4670
65°	4781	7490	7214	4686	4015
70°	4306	5985	6536	4226	3623
75°	3610	4650	5794	3713	3088
80°	3051	3517	4940	3076	2897
85°	2580	2784	3865	2733	2580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 16445 cd/sqm



TEST NUMBER: P242734

CATALOG NUMBER: S124RDRP-S1020D927-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	3.8
10°-20°	366.6	11.6
20°-30°	574.2	18.1
30°-40°	637.7	20.1
40°-50°	565.1	17.8
50°-60°	440.4	13.9
60°-70°	288.0	9.1
70°-80°	141.3	4.5
80°-90°	34.4	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°	1062.2	33.5
0°-40°	1699.9	53.6
0°-60°	2705.4	85.4
0°-90°	3169.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1254	1254	1254	1254	1254	
5°	1449	1379	1253	1134	1107	146
15°	1919	1676	1198	934	823	546
25°	2070	1822	1096	714	649	924
35°	1275	1719	952	574	542	798
45°	652	1225	762	456	457	514
55°	389	693	546	344	340	353
65°	227	356	343	223	191	228
75°	105	135	169	108	90	115
85°	25	27	38	27	25	29
90°	0	0	0	0	0	



TEST NUMBER: P242734

CATALOG NUMBER: S124RDRP-S1020D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1339.6	1344.1	1339.6	1339.1	1334.0	1332.5	1330.5	1323.9	1311.8	1304.7	1306.2
5°	1448.7	1461.3	1454.2	1453.2	1442.1	1431.0	1423.9	1407.8	1390.6	1379.0	1369.4
7.5°	1569.9	1577.5	1572.4	1566.9	1547.7	1541.6	1524.9	1505.7	1477.0	1455.2	1435.5
10°	1694.2	1700.2	1698.2	1685.1	1671.9	1645.2	1630.0	1600.2	1561.3	1530.5	1501.7
12.5°	1816.4	1823.0	1801.2	1805.3	1777.5	1757.8	1731.5	1692.1	1645.7	1603.7	1565.9
15°	1919.4	1911.4	1911.4	1901.3	1873.5	1844.2	1819.4	1780.0	1723.5	1676.0	1626.0
17.5°	2004.3	2007.8	2003.8	1978.0	1957.8	1928.0	1883.6	1838.6	1789.6	1726.0	1676.5
20°	2079.1	2079.1	2074.5	2058.3	2030.1	1997.7	1948.7	1898.7	1832.1	1767.9	1710.3
22.5°	2109.4	2111.4	2105.8	2093.2	2068.4	2037.1	1997.2	1946.2	1877.0	1802.8	1728.0
25°	2070.0	2079.6	2080.6	2077.0	2069.5	2050.3	2014.4	1962.4	1900.7	1822.5	1745.7
27.5°	1942.7	1955.3	1960.4	1971.5	1992.2	1999.8	1995.2	1960.4	1900.7	1823.5	1747.2
30°	1731.5	1741.6	1774.5	1817.4	1850.7	1881.0	1907.3	1914.4	1884.1	1816.4	1735.1
32.5°	1497.2	1511.8	1544.6	1591.6	1652.7	1709.3	1776.5	1812.4	1818.9	1785.1	1711.3
35°	1274.9	1285.0	1315.3	1363.8	1430.5	1506.8	1600.2	1672.9	1722.4	1718.9	1672.9
37.5°	1061.8	1075.9	1106.7	1146.6	1212.3	1309.8	1398.2	1495.6	1584.5	1628.0	1604.8
40°	894.1	894.6	924.4	965.8	1026.4	1108.7	1207.2	1318.4	1420.4	1503.7	1519.9
42.5°	761.7	761.7	778.9	824.3	863.7	940.0	1033.0	1143.1	1266.8	1366.3	1415.8
45°	651.6	656.1	672.3	699.1	733.4	799.1	874.4	976.9	1110.7	1224.9	1296.1
47.5°	564.7	572.8	582.4	606.6	634.9	680.9	745.0	841.0	952.1	1078.9	1177.4
50°	500.1	501.1	514.2	526.3	550.1	584.9	639.5	716.3	816.3	937.0	1049.6
52.5°	444.5	444.0	450.6	466.7	484.9	510.2	551.6	619.8	705.6	810.7	927.9
55°	388.9	391.5	397.5	409.6	424.3	443.5	478.3	530.9	600.6	693.0	798.6
57.5°	346.5	348.0	353.6	358.1	372.3	386.4	414.7	452.6	513.7	591.0	694.5
60°	305.1	305.6	307.1	314.7	325.3	338.4	356.1	386.9	436.4	505.6	583.4
62.5°	264.7	265.7	268.2	273.3	280.8	288.9	307.6	330.9	369.7	426.3	494.5
65°	227.3	227.8	231.3	233.4	239.9	248.0	261.6	278.3	306.6	356.1	409.1
67.5°	196.0	196.0	196.0	199.0	204.1	209.6	218.7	232.9	255.6	287.4	336.9
70°	165.7	165.7	166.7	168.2	170.7	175.3	179.8	189.9	205.6	230.3	266.2
72.5°	137.4	137.9	138.9	138.9	139.9	143.5	146.5	152.0	162.6	179.8	207.1
75°	105.1	106.6	109.1	111.1	113.7	113.1	116.7	120.7	124.3	135.4	152.0
77.5°	82.8	81.8	81.8	83.8	84.4	84.9	87.4	90.9	94.0	100.0	106.1
80°	59.6	59.6	61.1	61.6	61.1	61.6	64.1	65.7	66.7	68.7	74.3
82.5°	41.4	42.4	41.4	41.9	42.4	42.9	45.0	45.0	46.0	46.5	48.0
85°	25.3	25.8	26.3	25.3	25.3	25.3	26.3	26.8	27.8	27.3	28.3
87.5°	11.1	10.6	11.1	11.1	11.6	11.1	11.6	12.6	11.6	12.1	12.1
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: P242734

CATALOG NUMBER: S124RDRP-S1020D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1301.2	1294.1	1290.6	1282.5	1272.9	1267.8	1263.3	1256.7	1248.1	1239.0	1232.5
5°	1357.2	1345.1	1330.0	1311.8	1295.6	1280.0	1266.3	1252.7	1237.0	1220.9	1204.7
7.5°	1412.8	1391.1	1367.9	1340.1	1313.3	1288.5	1266.3	1244.6	1219.9	1197.6	1176.9
10°	1471.4	1439.1	1403.2	1365.3	1327.4	1294.6	1262.3	1233.0	1200.7	1171.9	1147.6
12.5°	1518.9	1479.5	1434.5	1385.0	1337.5	1296.1	1257.7	1217.3	1179.4	1147.6	1113.3
15°	1572.4	1520.4	1462.3	1405.7	1346.6	1292.6	1242.6	1198.1	1156.2	1112.3	1081.5
17.5°	1609.3	1549.2	1480.5	1414.8	1347.1	1284.5	1227.9	1176.4	1128.4	1084.5	1048.1
20°	1641.6	1573.4	1495.1	1417.9	1339.6	1271.4	1209.2	1150.7	1100.6	1052.2	1014.3
22.5°	1659.8	1582.5	1495.1	1413.3	1331.5	1256.2	1186.5	1124.9	1069.3	1020.8	977.9
25°	1660.8	1580.0	1492.6	1399.7	1310.8	1232.5	1161.8	1095.6	1035.0	986.5	942.0
27.5°	1656.8	1563.3	1475.4	1381.0	1289.6	1206.2	1133.0	1062.8	1002.7	951.1	905.7
30°	1644.7	1542.6	1446.7	1347.6	1254.7	1175.4	1097.1	1030.4	967.3	913.2	867.3
32.5°	1618.4	1517.4	1412.3	1310.3	1215.8	1133.5	1060.2	993.1	931.4	875.9	826.4
35°	1582.0	1479.5	1367.3	1263.3	1170.9	1086.0	1016.3	951.6	892.5	833.4	781.9
37.5°	1540.1	1433.0	1322.4	1208.2	1116.3	1035.5	970.3	908.2	850.6	796.6	739.5
40°	1475.4	1380.0	1264.8	1151.7	1056.7	979.4	920.3	865.3	807.2	753.6	696.6
42.5°	1397.1	1319.4	1202.7	1089.0	995.6	921.8	867.8	814.2	762.7	711.2	651.1
45°	1308.2	1246.6	1137.5	1028.4	934.0	860.2	809.7	762.2	715.7	666.2	610.2
47.5°	1209.2	1163.8	1068.8	954.7	866.3	798.6	750.1	710.7	669.8	619.8	569.3
50°	1105.2	1078.4	987.5	885.5	802.1	741.0	691.0	654.6	621.8	574.3	530.4
52.5°	994.1	983.0	909.7	813.2	733.4	673.8	632.9	601.1	567.7	530.4	490.0
55°	880.9	888.5	823.3	739.0	663.2	612.7	573.8	546.5	518.2	484.9	453.1
57.5°	763.2	792.0	743.5	667.3	594.0	546.5	516.7	492.5	468.7	440.5	411.7
60°	659.7	682.9	658.2	593.0	530.9	487.4	460.2	442.5	418.7	393.5	372.8
62.5°	558.7	583.9	571.8	522.3	465.7	429.9	406.6	390.5	374.3	353.1	331.4
65°	477.3	493.5	486.4	450.1	409.1	377.3	355.1	343.0	326.8	310.6	291.5
67.5°	381.9	413.7	408.6	388.4	349.0	323.8	308.1	297.0	281.9	269.7	256.1
70°	300.5	329.3	328.8	313.2	294.0	270.7	260.6	251.5	238.4	226.8	216.2
72.5°	232.4	258.1	263.2	252.1	240.4	224.3	214.7	209.1	196.5	189.4	181.3
75°	172.2	191.4	196.5	196.5	190.4	181.3	172.7	168.7	159.6	152.5	147.5
77.5°	121.2	134.4	141.9	143.5	144.0	140.4	132.3	129.3	122.2	119.7	114.2
80°	79.8	87.9	97.0	100.0	102.5	101.5	98.5	96.5	89.9	87.4	85.4
82.5°	49.0	52.5	59.6	67.2	65.7	69.2	66.7	65.2	60.6	60.1	58.1
85°	28.8	29.3	30.3	34.9	37.4	38.4	38.9	37.9	36.4	36.4	32.8
87.5°	12.1	11.6	12.6	12.6	13.1	15.2	16.7	17.2	15.7	14.1	12.6
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: P242734

CATALOG NUMBER: S124RDRP-S1020D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1225.4	1220.4	1213.8	1206.2	1197.1	1189.0	1185.5	1188.5	1190.1	1186.0	1185.5
5°	1193.6	1181.0	1170.9	1155.7	1143.6	1133.5	1126.4	1123.4	1124.4	1116.3	1114.3
7.5°	1158.2	1144.6	1127.9	1110.7	1094.6	1080.4	1072.9	1069.3	1060.7	1057.2	1051.7
10°	1124.4	1104.2	1088.0	1066.8	1047.6	1029.9	1021.3	1014.3	1005.7	1001.6	993.1
12.5°	1089.5	1065.3	1047.1	1024.9	1005.2	983.0	974.9	960.2	945.6	936.0	924.4
15°	1057.2	1028.9	1007.2	980.9	957.7	933.5	911.7	887.5	878.4	859.2	848.1
17.5°	1018.8	989.5	965.3	931.4	896.6	867.3	843.0	817.8	804.1	791.0	785.5
20°	980.9	954.7	917.3	876.4	836.5	803.1	784.4	769.3	754.1	745.6	739.5
22.5°	945.1	909.7	864.8	819.8	779.9	755.7	740.5	724.8	713.2	705.1	696.6
25°	904.2	860.2	814.2	763.7	736.5	713.7	696.6	683.9	676.3	665.7	661.7
27.5°	864.3	811.2	759.2	724.8	696.6	674.8	659.2	650.1	640.0	632.9	627.4
30°	816.8	762.7	717.3	684.9	656.1	639.0	626.8	615.7	608.2	602.6	598.6
32.5°	769.8	715.7	679.4	644.0	622.8	606.1	593.0	585.4	579.9	572.3	570.3
35°	724.8	676.9	643.5	612.2	589.0	573.8	563.7	555.1	550.1	548.1	546.5
37.5°	680.9	641.0	604.1	578.9	557.1	545.5	532.4	528.4	524.8	520.3	522.3
40°	639.5	602.6	570.8	543.5	526.8	513.7	506.6	501.6	498.5	498.5	498.5
42.5°	603.6	567.7	536.9	513.2	496.5	485.9	477.8	473.8	473.3	472.8	475.8
45°	566.2	532.9	501.6	481.4	467.2	456.1	451.6	448.0	448.0	450.1	450.6
47.5°	528.9	497.5	472.3	449.0	435.9	428.8	424.8	422.8	422.8	425.3	427.3
50°	495.0	464.2	439.5	419.2	407.1	400.6	397.0	396.0	397.0	397.0	400.6
52.5°	458.1	431.4	407.1	391.0	376.8	370.8	369.2	367.7	368.2	370.2	371.3
55°	422.3	397.5	374.3	358.1	348.0	344.0	339.4	339.9	338.9	339.9	339.9
57.5°	385.9	364.2	341.5	328.3	319.7	313.7	308.6	310.1	308.6	308.6	308.1
60°	351.1	326.8	309.6	298.0	287.9	282.9	278.3	279.3	277.8	276.8	274.8
62.5°	313.2	294.0	277.8	266.7	259.1	253.1	248.5	247.0	243.0	238.9	233.9
65°	276.8	260.1	245.5	234.9	227.3	222.8	219.2	216.2	208.6	200.5	196.5
67.5°	240.9	228.8	214.7	205.6	199.5	193.5	186.9	181.3	173.8	168.7	166.2
70°	206.6	195.0	183.4	174.8	168.2	162.6	155.1	151.5	146.5	144.5	141.9
72.5°	173.8	163.2	152.5	145.0	137.9	133.9	128.3	124.8	123.2	122.7	120.2
75°	140.4	131.8	123.8	116.7	111.1	108.1	105.6	103.0	102.0	97.5	95.0
77.5°	108.1	102.0	97.0	91.4	87.9	85.9	80.3	76.8	74.8	72.2	71.7
80°	79.8	75.8	70.7	67.7	62.1	60.1	58.1	57.6	57.1	56.6	56.1
82.5°	55.1	51.0	46.0	44.5	43.9	42.9	41.9	41.4	40.9	41.4	41.4
85°	30.3	28.3	28.3	27.8	27.3	26.8	26.3	26.3	25.8	26.3	25.8
87.5°	12.6	12.1	12.1	11.1	11.6	11.6	11.1	11.1	11.6	10.6	10.6
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: P242734

CATALOG NUMBER: S124RDRP-S1020D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1253.7	1253.7	1253.7	1253.7
2.5°	1182.5	1183.5	1179.9	1178.9
5°	1110.2	1109.2	1106.7	1107.2
7.5°	1047.6	1044.1	1046.6	1042.6
10°	991.0	985.5	980.9	976.9
12.5°	913.8	909.2	902.6	905.2
15°	841.5	833.9	821.8	823.3
17.5°	776.9	777.9	770.8	772.8
20°	728.9	725.3	725.9	724.3
22.5°	695.5	691.0	686.5	682.9
25°	657.2	654.1	649.6	648.6
27.5°	623.3	622.8	620.8	618.3
30°	594.5	593.5	592.5	591.0
32.5°	568.8	568.3	567.2	567.7
35°	544.5	544.0	543.0	542.5
37.5°	521.8	523.3	522.3	522.3
40°	498.0	498.5	499.6	499.1
42.5°	478.3	478.3	479.9	477.8
45°	454.1	457.1	456.6	456.6
47.5°	428.3	431.9	432.4	432.4
50°	403.1	402.1	403.6	403.1
52.5°	372.3	372.8	372.3	371.8
55°	340.4	341.0	339.9	340.4
57.5°	306.6	304.6	306.1	305.1
60°	269.7	265.7	264.7	262.7
62.5°	228.3	225.8	221.7	224.3
65°	192.4	190.4	188.9	190.9
67.5°	163.7	162.6	162.6	161.6
70°	141.9	140.4	140.4	139.4
72.5°	119.7	118.2	118.7	118.2
75°	91.9	89.4	89.4	89.9
77.5°	71.7	71.2	72.2	70.7
80°	56.1	55.6	55.1	56.6
82.5°	40.4	40.4	40.4	42.4
85°	26.3	25.3	26.3	25.3
87.5°	11.6	11.1	10.6	11.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242734
 CATALOG NUMBER: S124RDRP-S1020D927-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	17.48	19.00	17.84	19.31	19.63	19.30	20.82	19.66	21.13	21.45
	3H	18.71	20.07	19.08	20.40	20.76	20.75	22.12	21.13	22.44	22.81
	4H	19.14	20.42	19.54	20.77	21.15	21.27	22.55	21.67	22.89	23.27
	6H	19.41	20.59	19.82	20.96	21.35	21.62	22.80	22.03	23.17	23.56
	8H	19.49	20.62	19.92	21.01	21.41	21.72	22.85	22.15	23.24	23.64
	12H	19.54	20.62	19.97	21.00	21.43	21.78	22.86	22.21	23.24	23.67
4H	2H	18.74	20.02	19.14	20.37	20.75	19.80	21.08	20.20	21.43	21.81
	3H	19.97	21.04	20.38	21.44	21.84	21.54	22.61	21.96	23.01	23.41
	4H	20.44	21.39	20.87	21.81	22.25	22.17	23.13	22.60	23.54	23.98
	6H	20.76	21.59	21.22	22.03	22.49	22.63	23.46	23.09	23.90	24.36
	8H	20.86	21.63	21.32	22.07	22.54	22.76	23.54	23.23	23.98	24.45
	12H	20.92	21.62	21.41	22.10	22.57	22.85	23.55	23.34	24.03	24.50
8H	4H	20.84	21.62	21.30	22.06	22.53	22.28	23.06	22.75	23.50	23.97
	6H	21.23	21.87	21.72	22.36	22.84	22.83	23.47	23.32	23.96	24.44
	8H	21.36	21.94	21.88	22.45	22.93	23.02	23.59	23.53	24.10	24.59
	12H	21.47	21.98	21.98	22.47	23.04	23.16	23.67	23.67	24.16	24.73
12H	4H	20.88	21.57	21.36	22.05	22.52	22.27	22.96	22.75	23.44	23.91
	6H	21.27	21.85	21.79	22.36	22.85	22.82	23.39	23.33	23.90	24.39
	8H	21.45	21.96	21.96	22.45	23.02	23.04	23.55	23.55	24.04	24.61