

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: P242754

Luminaire Tested: S124RDRP-S1020D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242754
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-S1020D930-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

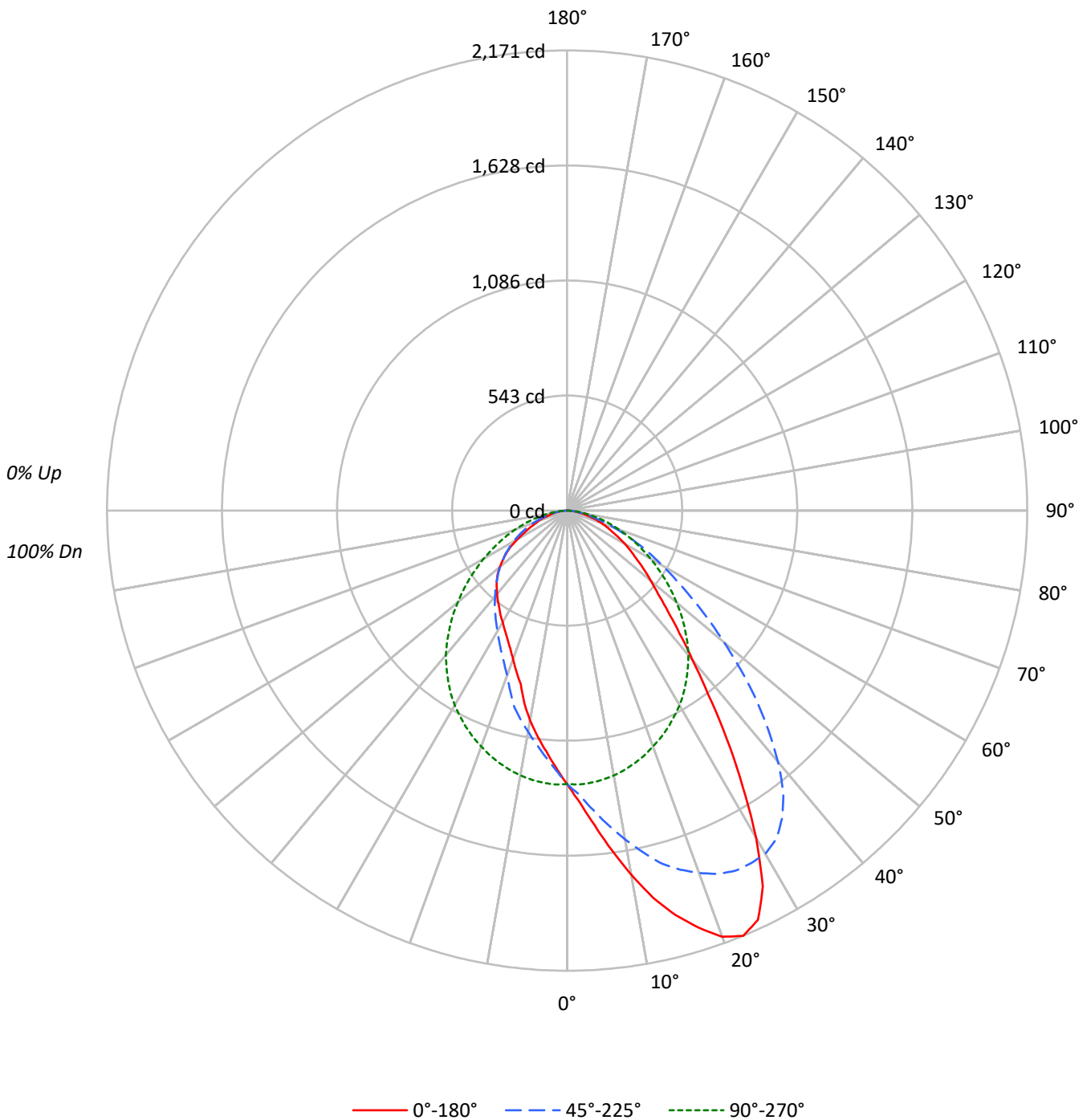
Lumens per Lamp: N/A
Luminaire Lumens: 3261.7 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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

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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°	11469	11469	11469	11469	11469
5°	13303	12663	11503	10409	10168
10°	15738	14218	11454	9568	9075
15°	18179	15873	11348	8841	7798
20°	20240	17211	11202	7819	7052
25°	20895	18396	11059	7205	6547
30°	18292	19188	10885	6750	6243
35°	14238	19197	10628	6409	6058
40°	10677	17958	10333	6135	5960
45°	8430	15847	9862	5901	5907
50°	7118	13335	9316	5700	5736
55°	6204	11053	8717	5486	5430
60°	5582	9252	8096	5175	4805
65°	4920	7709	7425	4823	4133
70°	4431	6162	6729	4351	3729
75°	3713	4784	5962	3819	3177
80°	3138	3619	5083	3169	2979
85°	2652	2866	3978	2815	2652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 16925 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.8
10°-20°	377.3	11.6
20°-30°	591.0	18.1
30°-40°	656.3	20.1
40°-50°	581.6	17.8
50°-60°	453.2	13.9
60°-70°	296.5	9.1
70°-80°	145.4	4.5
80°-90°	35.4	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°	1093.2	33.5
0°-40°	1749.5	53.6
0°-60°	2784.3	85.4
0°-90°	3261.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3261.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1290	1290	1290	1290	1290	
5°	1491	1419	1289	1167	1140	150
15°	1976	1725	1233	961	847	562
25°	2130	1876	1128	735	668	951
35°	1312	1769	979	591	558	821
45°	671	1261	784	469	470	529
55°	400	713	562	354	350	364
65°	234	366	353	229	196	235
75°	108	139	174	111	92	119
85°	26	28	39	28	26	30
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°	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3
2.5°	1378.7	1383.3	1378.7	1378.1	1372.9	1371.4	1369.3	1362.5	1350.1	1342.8	1344.3
5°	1490.9	1503.9	1496.7	1495.6	1484.2	1472.8	1465.5	1448.8	1431.2	1419.2	1409.3
7.5°	1615.7	1623.5	1618.3	1612.6	1592.8	1586.6	1569.4	1549.7	1520.1	1497.7	1477.4
10°	1743.6	1749.8	1747.8	1734.2	1720.7	1693.2	1677.6	1646.9	1606.9	1575.2	1545.5
12.5°	1869.4	1876.2	1853.8	1858.0	1829.4	1809.1	1782.1	1741.5	1693.7	1650.5	1611.6
15°	1975.5	1967.1	1967.1	1956.7	1928.1	1898.0	1872.5	1832.0	1773.7	1724.9	1673.4
17.5°	2062.8	2066.4	2062.3	2035.8	2015.0	1984.3	1938.5	1892.3	1841.8	1776.3	1725.4
20°	2139.7	2139.7	2135.0	2118.4	2089.3	2056.0	2005.6	1954.1	1885.5	1819.5	1760.2
22.5°	2170.9	2173.0	2167.3	2154.3	2128.8	2096.6	2055.5	2003.0	1931.8	1855.4	1778.4
25°	2130.4	2140.2	2141.3	2137.6	2129.8	2110.1	2073.2	2019.6	1956.2	1875.6	1796.6
27.5°	1999.4	2012.4	2017.6	2029.0	2050.3	2058.1	2053.4	2017.6	1956.2	1876.7	1798.2
30°	1782.1	1792.5	1826.3	1870.4	1904.8	1935.9	1963.0	1970.3	1939.1	1869.4	1785.7
32.5°	1540.9	1555.9	1589.7	1638.1	1701.0	1759.2	1828.3	1865.2	1872.0	1837.2	1761.3
35°	1312.1	1322.5	1353.7	1403.6	1472.2	1550.7	1646.9	1721.8	1772.7	1769.1	1721.8
37.5°	1092.7	1107.3	1139.0	1180.1	1247.7	1348.0	1439.0	1539.3	1630.8	1675.5	1651.6
40°	920.1	920.7	951.3	994.0	1056.3	1141.1	1242.5	1356.8	1461.8	1547.6	1564.2
42.5°	783.9	783.9	801.6	848.4	889.0	967.5	1063.1	1176.4	1303.8	1406.2	1457.2
45°	670.6	675.3	691.9	719.5	754.8	822.4	899.9	1005.4	1143.2	1260.6	1333.9
47.5°	581.2	589.5	599.4	624.3	653.5	700.8	766.8	865.6	979.9	1110.4	1211.8
50°	514.7	515.7	529.2	541.7	566.1	602.0	658.1	737.2	840.1	964.3	1080.3
52.5°	457.5	457.0	463.7	480.3	499.1	525.1	567.7	637.9	726.2	834.4	955.0
55°	400.3	402.9	409.1	421.6	436.7	456.4	492.3	546.4	618.1	713.2	821.9
57.5°	356.6	358.2	363.9	368.6	383.1	397.7	426.8	465.8	528.7	608.2	714.8
60°	314.0	314.5	316.1	323.9	334.8	348.3	366.5	398.2	449.2	520.4	600.4
62.5°	272.4	273.4	276.0	281.2	289.0	297.4	316.6	340.5	380.5	438.8	508.9
65°	233.9	234.5	238.1	240.2	246.9	255.2	269.3	286.4	315.6	366.5	421.1
67.5°	201.7	201.7	201.7	204.8	210.0	215.7	225.1	239.7	263.0	295.8	346.7
70°	170.5	170.5	171.6	173.1	175.7	180.4	185.1	195.5	211.6	237.1	274.0
72.5°	141.4	141.9	143.0	143.0	144.0	147.6	150.8	156.5	167.4	185.1	213.1
75°	108.1	109.7	112.3	114.4	117.0	116.4	120.1	124.2	127.9	139.3	156.5
77.5°	85.3	84.2	84.2	86.3	86.8	87.3	89.9	93.6	96.7	102.9	109.2
80°	61.3	61.3	62.9	63.4	62.9	63.4	66.0	67.6	68.6	70.7	76.4
82.5°	42.6	43.7	42.6	43.1	43.7	44.2	46.3	46.3	47.3	47.8	49.4
85°	26.0	26.5	27.0	26.0	26.0	26.0	27.0	27.6	28.6	28.1	29.1
87.5°	11.4	10.9	11.4	11.4	12.0	11.4	12.0	13.0	12.0	12.5	12.5
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°	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3
2.5°	1339.1	1331.9	1328.2	1319.9	1310.0	1304.8	1300.2	1293.4	1284.6	1275.2	1268.4
5°	1396.9	1384.4	1368.8	1350.1	1333.4	1317.3	1303.3	1289.2	1273.1	1256.5	1239.9
7.5°	1454.0	1431.7	1407.8	1379.2	1351.6	1326.2	1303.3	1280.9	1255.5	1232.6	1211.3
10°	1514.3	1481.1	1444.2	1405.2	1366.2	1332.4	1299.1	1269.0	1235.7	1206.1	1181.1
12.5°	1563.2	1522.7	1476.4	1425.4	1376.6	1333.9	1294.4	1252.9	1213.9	1181.1	1145.8
15°	1618.3	1564.8	1505.0	1446.8	1385.9	1330.3	1278.8	1233.1	1189.9	1144.7	1113.0
17.5°	1656.3	1594.4	1523.7	1456.1	1386.5	1322.0	1263.8	1210.7	1161.4	1116.1	1078.7
20°	1689.5	1619.3	1538.8	1459.2	1378.7	1308.5	1244.5	1184.2	1132.8	1082.9	1043.9
22.5°	1708.2	1628.7	1538.8	1454.6	1370.3	1292.9	1221.1	1157.7	1100.5	1050.6	1006.4
25°	1709.3	1626.1	1536.2	1440.5	1349.0	1268.4	1195.7	1127.6	1065.2	1015.3	969.5
27.5°	1705.1	1609.0	1518.5	1421.3	1327.2	1241.4	1166.0	1093.8	1031.9	978.9	932.1
30°	1692.6	1587.6	1488.9	1387.0	1291.3	1209.7	1129.1	1060.5	995.5	939.9	892.6
32.5°	1665.6	1561.6	1453.5	1348.5	1251.3	1166.6	1091.2	1022.0	958.6	901.4	850.5
35°	1628.2	1522.7	1407.2	1300.2	1205.0	1117.7	1045.9	979.4	918.6	857.8	804.7
37.5°	1585.0	1474.8	1361.0	1243.5	1148.9	1065.7	998.6	934.7	875.4	819.8	761.1
40°	1518.5	1420.2	1301.7	1185.3	1087.5	1008.0	947.2	890.5	830.7	775.6	716.9
42.5°	1437.9	1357.9	1237.8	1120.8	1024.6	948.7	893.1	838.0	785.0	732.0	670.1
45°	1346.4	1283.0	1170.7	1058.4	961.2	885.3	833.3	784.5	736.6	685.7	628.0
47.5°	1244.5	1197.7	1100.0	982.5	891.6	821.9	772.0	731.4	689.3	637.9	585.9
50°	1137.4	1109.9	1016.3	911.3	825.5	762.6	711.2	673.7	639.9	591.1	545.8
52.5°	1023.1	1011.6	936.3	837.0	754.8	693.5	651.4	618.6	584.3	545.8	504.3
55°	906.6	914.4	847.4	760.5	682.6	630.6	590.6	562.5	533.4	499.1	466.3
57.5°	785.5	815.1	765.2	686.7	611.3	562.5	531.8	506.9	482.4	453.3	423.7
60°	678.9	702.8	677.4	610.3	546.4	501.7	473.6	455.4	431.0	405.0	383.7
62.5°	575.0	601.0	588.5	537.5	479.3	442.4	418.5	401.8	385.2	363.4	341.0
65°	491.3	507.9	500.6	463.2	421.1	388.3	365.5	353.0	336.3	319.7	300.0
67.5°	393.0	425.8	420.6	399.8	359.2	333.2	317.1	305.7	290.1	277.6	263.6
70°	309.3	338.9	338.4	322.3	302.6	278.6	268.2	258.9	245.4	233.4	222.5
72.5°	239.1	265.6	270.8	259.4	247.5	230.8	220.9	215.2	202.2	194.9	186.6
75°	177.3	197.0	202.2	202.2	196.0	186.6	177.8	173.6	164.3	157.0	151.8
77.5°	124.8	138.3	146.1	147.6	148.2	144.5	136.2	133.1	125.8	123.2	117.5
80°	82.1	90.5	99.8	102.9	105.5	104.5	101.4	99.3	92.5	89.9	87.9
82.5°	50.4	54.1	61.3	69.1	67.6	71.2	68.6	67.1	62.4	61.9	59.8
85°	29.6	30.2	31.2	35.9	38.5	39.5	40.0	39.0	37.4	37.4	33.8
87.5°	12.5	12.0	13.0	13.0	13.5	15.6	17.2	17.7	16.1	14.6	13.0
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°	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3	1290.3
2.5°	1261.2	1256.0	1249.2	1241.4	1232.1	1223.7	1220.1	1223.2	1224.8	1220.6	1220.1
5°	1228.4	1215.4	1205.0	1189.4	1177.0	1166.6	1159.3	1156.2	1157.2	1148.9	1146.8
7.5°	1192.0	1178.0	1160.8	1143.2	1126.5	1112.0	1104.2	1100.5	1091.7	1088.1	1082.3
10°	1157.2	1136.4	1119.8	1097.9	1078.2	1060.0	1051.1	1043.9	1035.0	1030.9	1022.0
12.5°	1121.3	1096.4	1077.7	1054.8	1034.5	1011.6	1003.3	988.2	973.2	963.3	951.3
15°	1088.1	1058.9	1036.6	1009.6	985.6	960.7	938.3	913.4	904.0	884.3	872.8
17.5°	1048.5	1018.4	993.4	958.6	922.7	892.6	867.6	841.6	827.6	814.1	808.4
20°	1009.6	982.5	944.1	901.9	860.9	826.6	807.3	791.7	776.1	767.3	761.1
22.5°	972.6	936.3	890.0	843.7	802.7	777.7	762.1	746.0	734.0	725.7	716.9
25°	930.5	885.3	838.0	786.0	757.9	734.6	716.9	703.9	696.1	685.2	681.0
27.5°	889.5	834.9	781.3	746.0	716.9	694.5	678.4	669.1	658.7	651.4	645.7
30°	840.6	785.0	738.2	704.9	675.3	657.6	645.1	633.7	625.9	620.2	616.0
32.5°	792.3	736.6	699.2	662.8	641.0	623.8	610.3	602.5	596.8	589.0	586.9
35°	746.0	696.6	662.3	630.1	606.2	590.6	580.2	571.3	566.1	564.0	562.5
37.5°	700.8	659.7	621.7	595.8	573.4	561.4	547.9	543.8	540.1	535.5	537.5
40°	658.1	620.2	587.4	559.4	542.2	528.7	521.4	516.2	513.1	513.1	513.1
42.5°	621.2	584.3	552.6	528.2	511.0	500.1	491.8	487.6	487.1	486.6	489.7
45°	582.8	548.4	516.2	495.4	480.9	469.4	464.8	461.1	461.1	463.2	463.7
47.5°	544.3	512.1	486.1	462.2	448.6	441.4	437.2	435.1	435.1	437.7	439.8
50°	509.5	477.7	452.3	431.5	419.0	412.2	408.6	407.6	408.6	408.6	412.2
52.5°	471.5	444.0	419.0	402.4	387.8	381.6	380.0	378.5	379.0	381.1	382.1
55°	434.6	409.1	385.2	368.6	358.2	354.0	349.3	349.9	348.8	349.9	349.9
57.5°	397.2	374.8	351.4	337.9	329.1	322.8	317.6	319.2	317.6	317.6	317.1
60°	361.3	336.3	318.7	306.7	296.3	291.1	286.4	287.5	285.9	284.9	282.8
62.5°	322.3	302.6	285.9	274.5	266.7	260.4	255.8	254.2	250.1	245.9	240.7
65°	284.9	267.7	252.6	241.7	233.9	229.3	225.6	222.5	214.7	206.4	202.2
67.5°	248.0	235.5	220.9	211.6	205.3	199.1	192.3	186.6	178.8	173.6	171.0
70°	212.6	200.7	188.7	179.9	173.1	167.4	159.6	156.0	150.8	148.7	146.1
72.5°	178.8	167.9	157.0	149.2	141.9	137.8	132.0	128.4	126.8	126.3	123.7
75°	144.5	135.7	127.4	120.1	114.4	111.2	108.6	106.1	105.0	100.3	97.7
77.5°	111.2	105.0	99.8	94.1	90.5	88.4	82.7	79.0	76.9	74.3	73.8
80°	82.1	78.0	72.8	69.7	63.9	61.9	59.8	59.3	58.7	58.2	57.7
82.5°	56.7	52.5	47.3	45.7	45.2	44.2	43.1	42.6	42.1	42.6	42.6
85°	31.2	29.1	29.1	28.6	28.1	27.6	27.0	27.0	26.5	27.0	26.5
87.5°	13.0	12.5	12.5	11.4	12.0	12.0	11.4	11.4	12.0	10.9	10.9
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: P242754

CATALOG NUMBER: S124RDRP-S1020D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1290.3	1290.3	1290.3	1290.3
2.5°	1217.0	1218.0	1214.4	1213.3
5°	1142.6	1141.6	1139.0	1139.5
7.5°	1078.2	1074.5	1077.1	1073.0
10°	1020.0	1014.2	1009.6	1005.4
12.5°	940.4	935.7	929.0	931.6
15°	866.1	858.3	845.8	847.4
17.5°	799.5	800.6	793.3	795.4
20°	750.2	746.5	747.0	745.5
22.5°	715.8	711.2	706.5	702.8
25°	676.3	673.2	668.5	667.5
27.5°	641.5	641.0	638.9	636.3
30°	611.9	610.8	609.8	608.2
32.5°	585.4	584.8	583.8	584.3
35°	560.4	559.9	558.8	558.3
37.5°	537.0	538.6	537.5	537.5
40°	512.6	513.1	514.1	513.6
42.5°	492.3	492.3	493.9	491.8
45°	467.4	470.5	469.9	469.9
47.5°	440.8	444.5	445.0	445.0
50°	414.8	413.8	415.4	414.8
52.5°	383.1	383.7	383.1	382.6
55°	350.4	350.9	349.9	350.4
57.5°	315.6	313.5	315.0	314.0
60°	277.6	273.4	272.4	270.3
62.5°	235.0	232.4	228.2	230.8
65°	198.1	196.0	194.4	196.5
67.5°	168.4	167.4	167.4	166.4
70°	146.1	144.5	144.5	143.5
72.5°	123.2	121.6	122.2	121.6
75°	94.6	92.0	92.0	92.5
77.5°	73.8	73.3	74.3	72.8
80°	57.7	57.2	56.7	58.2
82.5°	41.6	41.6	41.6	43.7
85°	27.0	26.0	27.0	26.0
87.5°	12.0	11.4	10.9	11.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242754
 CATALOG NUMBER: S124RDRP-S1020D930-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	17.58	19.10	17.94	19.41	19.73	19.40	20.92	19.76	21.23	21.55
	3H	18.80	20.17	19.18	20.50	20.86	20.85	22.22	21.23	22.54	22.91
	4H	19.24	20.52	19.64	20.87	21.25	21.37	22.65	21.77	22.99	23.37
	6H	19.51	20.69	19.92	21.06	21.45	21.72	22.90	22.13	23.27	23.66
	8H	19.59	20.72	20.02	21.11	21.51	21.82	22.95	22.25	23.34	23.74
	12H	19.64	20.72	20.07	21.10	21.53	21.88	22.96	22.31	23.34	23.77
4H	2H	18.84	20.12	19.24	20.47	20.85	19.90	21.18	20.30	21.53	21.91
	3H	20.07	21.14	20.48	21.54	21.94	21.64	22.71	22.06	23.11	23.51
	4H	20.54	21.49	20.97	21.91	22.35	22.27	23.23	22.70	23.64	24.08
	6H	20.86	21.69	21.32	22.13	22.59	22.73	23.56	23.19	24.00	24.46
	8H	20.96	21.73	21.42	22.18	22.64	22.86	23.64	23.33	24.08	24.55
	12H	21.02	21.72	21.51	22.20	22.67	22.95	23.65	23.44	24.13	24.60
8H	4H	20.94	21.72	21.40	22.16	22.63	22.38	23.16	22.85	23.60	24.07
	6H	21.33	21.97	21.82	22.46	22.94	22.93	23.57	23.42	24.06	24.54
	8H	21.46	22.04	21.98	22.55	23.03	23.12	23.69	23.63	24.20	24.69
	12H	21.57	22.08	22.08	22.57	23.14	23.26	23.77	23.77	24.26	24.83
12H	4H	20.98	21.67	21.46	22.15	22.62	22.37	23.06	22.85	23.54	24.01
	6H	21.37	21.95	21.89	22.46	22.95	22.92	23.49	23.43	24.00	24.49
	8H	21.55	22.06	22.06	22.55	23.12	23.14	23.65	23.65	24.14	24.71