

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: P243614

Luminaire Tested: S124RDRP-H1020D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243614  
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-H1020D930-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: -

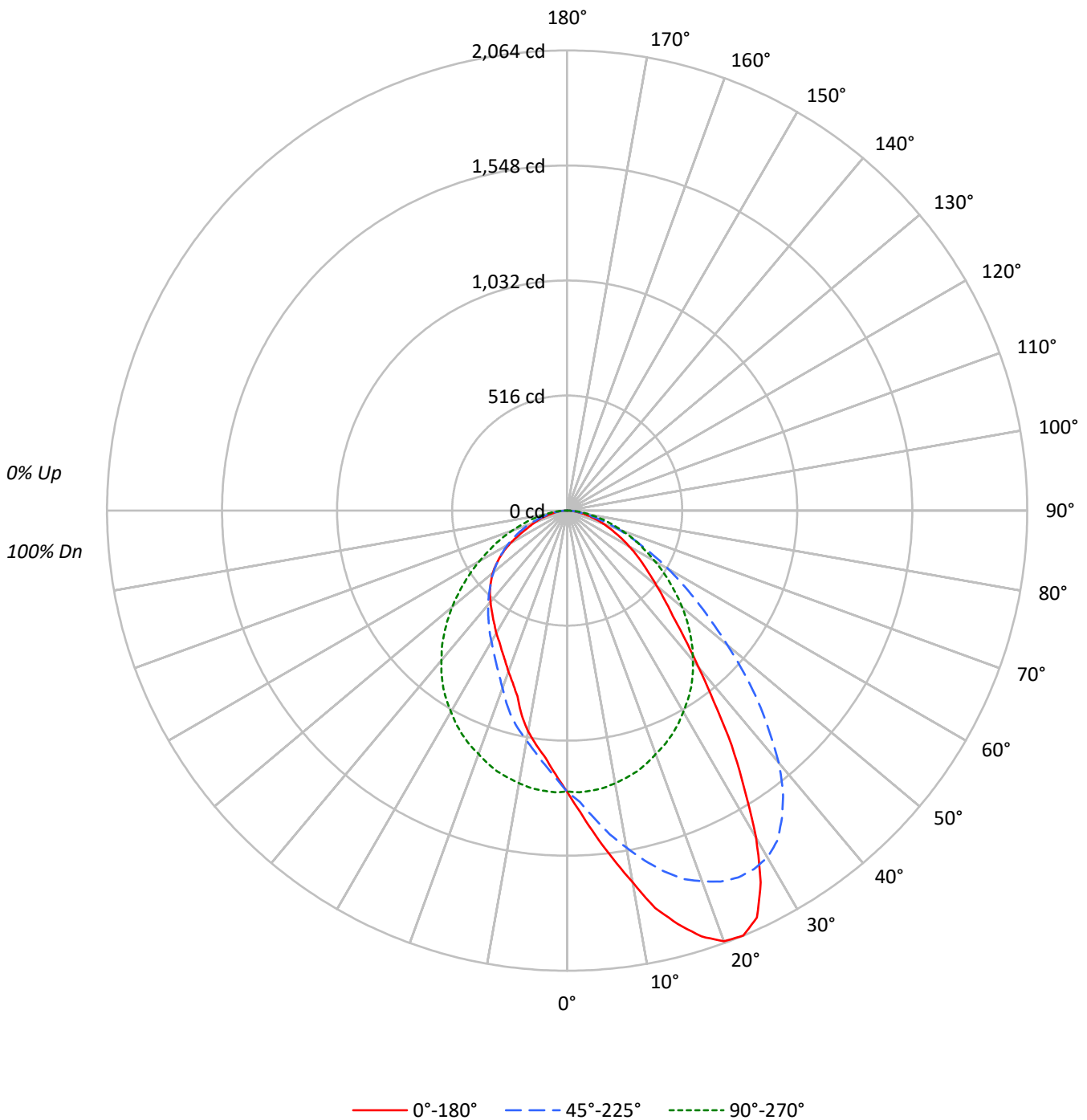
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3253.3 lumens  
Efficiency: N/A  
Efficacy: 103.3 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): 31.5  
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°	11204	11204	11204	11204	11204
5°	13051	12347	11252	10214	9933
10°	15285	13863	11205	9450	9082
15°	17661	15412	11148	8831	7932
20°	19446	16738	10990	8019	7271
25°	19758	17808	10890	7399	6798
30°	17391	18439	10696	6963	6520
35°	13955	18232	10514	6653	6307
40°	10616	17127	10178	6384	6208
45°	8429	15216	9805	6165	6133
50°	7235	12971	9319	5967	6028
55°	6390	11016	8717	5759	5736
60°	5724	9310	8089	5497	5253
65°	5037	7660	7475	5122	4419
70°	4491	6315	6786	4694	3979
75°	3912	4956	6172	4132	3541
80°	3317	3793	5303	3491	3266
85°	2907	3100	4559	3406	3304

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 16376 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	3.8
10°-20°	370.9	11.4
20°-30°	578.9	17.8
30°-40°	645.5	19.8
40°-50°	580.3	17.8
50°-60°	458.5	14.1
60°-70°	304.5	9.4
70°-80°	152.7	4.7
80°-90°	39.8	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°	1072.1	33.0
0°-40°	1717.6	52.8
0°-60°	2756.3	84.7
0°-90°	3253.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3253.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1260	1260	1260	1260	1260	
5°	1463	1384	1261	1145	1113	147
15°	1919	1675	1211	960	862	545
25°	2014	1816	1110	754	693	902
35°	1286	1680	969	613	581	799
45°	670	1210	780	490	488	531
55°	412	711	562	372	370	372
65°	240	364	355	244	210	240
75°	114	144	180	120	103	122
85°	28	30	45	33	32	32
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°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1353.8	1348.9	1348.4	1342.0	1341.5	1335.1	1333.1	1327.8	1317.0	1308.6	1309.1
5°	1462.7	1458.8	1458.3	1451.9	1450.0	1442.1	1429.8	1415.1	1397.9	1383.7	1374.4
7.5°	1574.6	1581.5	1574.2	1574.2	1559.9	1550.6	1526.5	1514.3	1484.8	1464.2	1442.6
10°	1693.4	1699.8	1696.9	1691.0	1672.3	1653.2	1628.2	1604.1	1568.3	1535.9	1514.3
12.5°	1826.0	1806.8	1819.1	1800.9	1785.7	1755.3	1731.2	1683.1	1654.7	1607.5	1565.3
15°	1919.2	1911.9	1911.4	1899.1	1882.4	1849.0	1823.0	1773.0	1724.4	1674.8	1627.2
17.5°	2002.7	2003.7	1996.8	1977.1	1955.5	1923.2	1887.8	1843.1	1787.7	1732.7	1676.3
20°	2055.7	2056.2	2051.3	2041.0	2017.4	1987.9	1951.6	1893.2	1830.4	1769.5	1713.1
22.5°	2063.5	2065.0	2063.5	2057.2	2041.0	2016.9	1983.5	1934.0	1870.6	1800.9	1733.7
25°	2014.5	2019.4	2019.8	2028.7	2020.3	2011.0	1986.5	1944.7	1886.3	1815.7	1742.5
27.5°	1880.0	1893.7	1906.5	1922.2	1936.4	1949.2	1951.1	1929.0	1879.0	1813.2	1743.5
30°	1694.4	1710.6	1736.1	1752.8	1797.0	1825.0	1862.8	1871.1	1847.1	1796.5	1729.3
32.5°	1478.4	1495.6	1505.4	1560.4	1623.7	1669.4	1732.2	1769.5	1778.8	1754.8	1699.8
35°	1286.0	1289.0	1296.3	1358.7	1421.5	1490.7	1568.8	1633.6	1677.7	1680.2	1653.2
37.5°	1079.9	1083.3	1112.3	1159.9	1214.4	1290.4	1380.3	1472.6	1553.5	1590.8	1583.0
40°	914.9	914.0	944.9	986.1	1039.1	1118.2	1210.9	1311.6	1397.9	1476.0	1494.6
42.5°	781.4	784.9	811.4	835.4	886.5	941.9	1041.1	1145.6	1256.6	1342.0	1398.9
45°	670.5	679.3	697.5	720.1	758.4	809.4	890.4	994.5	1107.8	1210.4	1278.7
47.5°	593.9	596.4	605.7	633.7	659.2	700.4	769.7	858.0	958.6	1073.5	1163.3
50°	523.2	529.1	532.6	549.3	574.3	613.6	667.1	732.8	832.5	938.0	1050.4
52.5°	462.4	465.8	472.2	487.4	507.0	534.5	576.7	634.7	717.6	815.3	921.3
55°	412.3	412.8	419.2	430.0	445.2	466.3	506.6	548.3	621.9	710.8	807.0
57.5°	367.2	364.2	370.1	376.5	391.2	409.4	435.4	478.1	535.5	611.1	698.0
60°	322.0	324.5	324.0	331.3	339.2	357.3	379.4	407.4	454.5	523.7	597.4
62.5°	279.8	279.3	284.2	288.6	294.0	308.7	326.9	350.0	386.8	437.8	509.0
65°	239.5	240.5	244.4	247.9	253.8	263.1	276.8	295.5	324.9	364.2	424.1
67.5°	203.2	206.6	208.6	209.6	215.0	221.9	233.6	248.9	269.0	300.4	350.5
70°	172.8	173.8	174.7	178.2	180.6	184.6	193.4	201.7	219.9	243.0	279.3
72.5°	144.3	143.3	146.3	147.3	148.2	152.2	157.6	162.0	173.8	193.4	216.0
75°	113.9	114.4	114.9	116.3	120.3	120.7	123.2	128.1	136.5	144.3	159.5
77.5°	85.4	86.9	86.4	87.9	89.3	90.8	91.8	96.2	102.1	108.5	115.8
80°	64.8	64.8	64.8	65.8	64.8	68.2	68.2	69.7	71.2	74.1	79.5
82.5°	44.2	45.2	45.6	46.1	46.6	46.6	47.1	48.1	50.1	51.0	52.5
85°	28.5	27.5	28.0	28.0	28.0	28.0	29.0	29.9	29.9	30.4	31.9
87.5°	12.8	12.8	12.8	12.8	12.3	12.8	13.3	13.3	13.7	13.7	14.7
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°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1306.2	1304.7	1297.3	1289.5	1282.1	1274.7	1272.3	1264.9	1256.1	1248.2	1239.4
5°	1364.6	1352.8	1336.6	1319.9	1302.7	1287.0	1274.7	1261.0	1245.3	1226.6	1211.9
7.5°	1423.5	1401.9	1375.4	1350.8	1321.4	1297.8	1274.2	1254.6	1232.0	1205.5	1185.4
10°	1480.9	1445.1	1412.7	1373.9	1336.6	1304.2	1274.2	1241.4	1211.4	1182.9	1155.0
12.5°	1526.5	1490.7	1444.1	1396.5	1348.4	1306.2	1265.9	1227.1	1189.8	1155.5	1124.5
15°	1578.6	1527.0	1469.6	1417.1	1351.3	1299.3	1253.1	1211.4	1168.7	1127.0	1093.1
17.5°	1616.9	1556.0	1484.8	1424.4	1361.1	1296.3	1240.9	1188.3	1139.3	1095.6	1060.7
20°	1646.3	1574.2	1503.0	1426.4	1350.8	1284.6	1222.2	1161.8	1112.3	1064.7	1027.8
22.5°	1659.1	1583.0	1504.0	1421.0	1340.5	1265.4	1200.6	1138.3	1082.3	1033.2	990.5
25°	1664.5	1581.0	1499.1	1404.8	1323.3	1246.8	1174.6	1110.3	1052.9	997.4	955.2
27.5°	1660.1	1570.7	1476.5	1387.6	1295.4	1220.3	1143.7	1078.4	1018.5	965.0	917.9
30°	1648.3	1547.2	1453.4	1353.8	1264.9	1185.9	1111.3	1042.1	981.7	927.2	880.6
32.5°	1617.8	1520.7	1414.1	1317.0	1221.2	1143.2	1075.5	1007.2	945.9	888.9	843.8
35°	1580.0	1484.8	1373.4	1271.8	1177.1	1098.0	1029.8	968.9	908.6	848.2	802.0
37.5°	1532.4	1435.7	1328.2	1218.8	1126.0	1049.4	987.1	925.7	865.9	810.4	758.9
40°	1468.1	1379.8	1271.8	1161.8	1068.6	995.0	933.6	877.1	824.1	769.7	714.2
42.5°	1388.1	1320.9	1209.5	1101.0	1009.7	936.5	882.1	831.5	780.5	724.5	674.4
45°	1302.7	1245.3	1144.2	1034.7	947.8	876.7	824.6	780.0	731.9	682.3	629.8
47.5°	1206.5	1163.8	1076.4	968.0	876.7	815.8	767.7	726.9	683.3	639.1	588.0
50°	1098.0	1072.0	997.4	898.7	811.9	750.0	710.3	673.9	636.6	592.5	548.8
52.5°	989.6	984.6	914.9	828.1	746.1	688.7	649.9	616.5	586.1	544.4	507.5
55°	875.7	890.4	832.5	752.5	679.3	623.9	589.5	562.5	536.0	500.7	465.3
57.5°	774.6	791.3	751.5	677.9	609.6	562.5	533.1	508.5	485.5	453.1	429.5
60°	662.6	693.1	672.0	604.7	544.4	502.1	474.7	455.0	435.9	407.9	387.3
62.5°	574.3	595.4	583.1	533.1	479.6	445.2	420.7	402.5	387.3	365.7	345.6
65°	479.6	506.1	499.7	466.8	419.7	388.3	369.6	355.4	339.7	322.5	305.8
67.5°	394.2	421.6	420.2	397.6	362.7	336.7	319.1	308.7	296.0	279.3	269.0
70°	317.1	342.6	343.6	332.3	307.8	283.2	270.5	261.1	251.3	239.0	231.7
72.5°	246.4	269.5	273.4	268.0	252.3	236.1	224.8	218.4	210.1	199.8	193.4
75°	184.1	200.8	210.1	207.6	201.2	190.4	184.1	179.7	171.3	163.9	158.5
77.5°	131.1	144.3	153.6	157.6	154.6	150.2	144.3	140.9	132.0	128.6	125.7
80°	87.9	99.6	108.0	110.4	111.9	110.9	105.5	103.6	99.2	97.7	94.7
82.5°	54.0	60.4	66.3	72.6	75.6	75.6	72.6	73.1	69.2	67.2	66.3
85°	32.9	34.4	35.3	40.2	44.2	45.6	44.2	44.7	43.2	41.7	40.2
87.5°	15.2	15.2	15.7	16.7	17.7	20.6	21.6	23.1	21.1	21.1	17.7
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°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1234.0	1227.6	1222.7	1214.9	1208.5	1198.2	1194.7	1194.7	1196.7	1194.2	1196.7
5°	1201.6	1189.8	1177.1	1165.8	1153.5	1144.7	1135.8	1133.9	1132.9	1127.0	1127.5
7.5°	1169.2	1153.5	1137.3	1122.6	1107.4	1093.6	1084.3	1080.4	1076.9	1073.0	1068.6
10°	1134.4	1116.2	1097.1	1080.4	1065.6	1047.0	1037.7	1034.7	1024.9	1022.9	1016.1
12.5°	1097.5	1078.9	1059.7	1038.1	1023.9	1005.8	992.0	985.6	976.3	969.4	959.1
15°	1068.6	1045.0	1019.5	998.4	979.7	959.6	941.0	928.7	916.4	897.3	887.9
17.5°	1032.7	1005.8	983.7	961.1	934.1	904.6	882.5	864.4	851.1	835.4	826.1
20°	994.0	968.9	941.5	909.5	881.1	847.7	827.6	812.4	802.0	792.7	787.8
22.5°	959.6	930.7	892.9	862.4	822.7	796.2	780.0	770.1	760.3	750.5	745.6
25°	922.3	888.4	842.3	805.0	775.1	754.4	738.7	729.4	719.1	713.2	705.8
27.5°	885.5	841.8	795.7	761.8	738.2	714.2	700.9	693.6	685.7	677.4	671.5
30°	840.8	791.3	753.0	722.0	698.5	678.4	668.5	657.7	650.9	646.0	642.5
32.5°	794.2	746.6	711.7	685.2	662.2	646.9	634.7	627.8	621.9	616.5	612.6
35°	750.5	704.4	674.9	649.4	630.3	613.1	603.7	597.4	592.5	588.0	586.1
37.5°	707.3	668.0	636.1	616.0	595.9	582.1	573.3	567.4	564.5	560.1	560.6
40°	664.6	629.3	603.7	580.7	562.0	550.2	543.4	540.9	536.5	535.0	536.5
42.5°	626.3	593.9	569.4	547.8	531.6	520.3	514.9	511.5	510.0	509.5	510.0
45°	589.0	558.6	535.0	517.4	500.7	490.4	485.9	483.5	482.0	484.5	485.0
47.5°	551.7	524.2	503.1	482.5	468.8	461.4	457.0	455.0	456.5	457.5	460.9
50°	514.9	489.4	467.3	449.1	438.3	431.5	430.0	426.5	429.0	430.5	432.9
52.5°	477.6	454.5	434.9	417.7	406.4	402.0	398.6	397.1	400.5	400.5	403.0
55°	439.8	419.7	401.5	385.8	377.0	371.6	369.1	367.2	369.1	369.6	369.1
57.5°	404.5	385.3	366.2	352.9	345.6	339.7	337.2	336.2	335.7	337.7	337.2
60°	367.2	349.0	333.8	320.0	312.7	309.2	303.8	304.8	304.8	304.8	299.9
62.5°	329.9	311.7	298.4	289.1	280.3	274.4	273.4	271.9	269.0	268.5	262.1
65°	291.6	277.8	266.5	257.2	248.4	243.5	242.0	237.6	234.1	227.8	223.3
67.5°	256.2	246.4	233.2	225.3	217.9	212.0	206.6	203.2	196.3	190.0	186.0
70°	220.9	210.6	201.7	193.4	186.0	180.6	174.3	167.9	163.5	159.5	156.6
72.5°	185.5	176.7	169.3	161.5	153.6	148.2	143.3	138.4	136.5	134.5	133.0
75°	152.7	144.3	137.4	131.1	126.6	120.3	117.8	115.8	113.9	111.4	108.5
77.5°	120.7	114.4	109.0	103.6	99.6	96.2	94.2	88.4	83.4	82.5	81.5
80°	89.8	84.9	81.5	77.6	73.1	68.2	66.8	64.8	63.8	63.8	64.3
82.5°	62.8	59.9	56.0	52.5	51.0	49.1	49.1	48.6	48.1	48.6	48.6
85°	38.3	34.4	33.4	32.9	33.4	33.4	33.4	33.4	32.9	33.4	32.4
87.5°	16.7	18.2	18.7	17.2	17.7	16.7	17.2	17.2	17.2	17.7	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



TEST NUMBER: P243614

CATALOG NUMBER: S124RDRP-H1020D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1260.5	1260.5	1260.5	1260.5
2.5°	1193.7	1193.7	1188.8	1184.9
5°	1126.5	1120.1	1119.1	1113.2
7.5°	1063.7	1062.7	1060.2	1060.2
10°	1013.6	1010.2	1006.7	1006.2
12.5°	942.9	947.8	941.9	940.5
15°	881.1	877.1	872.2	861.9
17.5°	823.6	816.3	814.3	809.9
20°	778.5	773.1	771.1	768.7
22.5°	735.8	734.8	728.9	727.4
25°	704.4	699.5	695.5	693.1
27.5°	670.0	666.6	664.6	660.7
30°	638.6	637.6	635.2	635.2
32.5°	610.1	607.2	607.2	606.7
35°	584.1	585.1	582.1	581.2
37.5°	559.6	558.1	558.6	557.6
40°	535.5	534.5	534.5	535.0
42.5°	511.0	511.5	512.4	512.4
45°	486.4	486.9	487.9	487.9
47.5°	463.4	462.4	463.4	462.4
50°	433.9	436.9	436.4	435.9
52.5°	404.0	403.0	405.0	404.5
55°	371.6	370.1	372.1	370.1
57.5°	335.3	335.7	335.7	334.8
60°	298.9	297.5	295.5	295.5
62.5°	256.7	252.3	249.4	251.3
65°	216.0	212.5	211.6	210.1
67.5°	183.6	179.7	178.2	177.7
70°	155.6	153.6	153.1	153.1
72.5°	132.0	132.0	130.6	129.6
75°	107.5	105.5	103.1	103.1
77.5°	80.5	80.0	79.5	79.5
80°	62.8	62.8	63.3	63.8
82.5°	47.1	47.6	48.1	48.1
85°	31.9	31.9	32.4	32.4
87.5°	17.2	17.2	17.2	16.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243614  
 CATALOG NUMBER: S124RDRP-H1020D930-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	17.74	19.27	18.10	19.58	19.90	19.43	20.97	19.80	21.28	21.59
	3H	18.97	20.35	19.35	20.67	21.04	20.91	22.29	21.29	22.62	22.98
	4H	19.40	20.69	19.80	21.04	21.42	21.46	22.75	21.86	23.10	23.47
	6H	19.68	20.87	20.09	21.24	21.63	21.84	23.04	22.26	23.40	23.80
	8H	19.77	20.90	20.19	21.29	21.69	21.96	23.10	22.39	23.49	23.89
	12H	19.82	20.91	20.25	21.29	21.72	22.04	23.13	22.47	23.51	23.94
4H	2H	18.94	20.24	19.34	20.58	20.96	19.96	21.25	20.36	21.60	21.98
	3H	20.21	21.29	20.62	21.69	22.09	21.74	22.81	22.15	23.21	23.61
	4H	20.68	21.65	21.12	22.06	22.50	22.39	23.36	22.83	23.77	24.21
	6H	21.02	21.86	21.47	22.30	22.76	22.89	23.73	23.35	24.17	24.63
	8H	21.12	21.90	21.58	22.35	22.81	23.05	23.83	23.51	24.28	24.74
	12H	21.19	21.90	21.68	22.37	22.85	23.16	23.86	23.64	24.34	24.81
8H	4H	21.09	21.88	21.56	22.32	22.79	22.52	23.31	22.98	23.75	24.22
	6H	21.49	22.14	21.99	22.63	23.11	23.12	23.77	23.62	24.26	24.74
	8H	21.64	22.22	22.15	22.73	23.22	23.34	23.92	23.85	24.43	24.92
	12H	21.76	22.27	22.27	22.77	23.33	23.52	24.03	24.03	24.52	25.09
12H	4H	21.14	21.84	21.62	22.32	22.79	22.51	23.21	22.99	23.69	24.16
	6H	21.55	22.13	22.06	22.64	23.13	23.11	23.70	23.63	24.21	24.69
	8H	21.74	22.26	22.25	22.75	23.31	23.37	23.89	23.88	24.38	24.94