

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: P242582

Luminaire Tested: S123RDRP-S1000D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D930-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

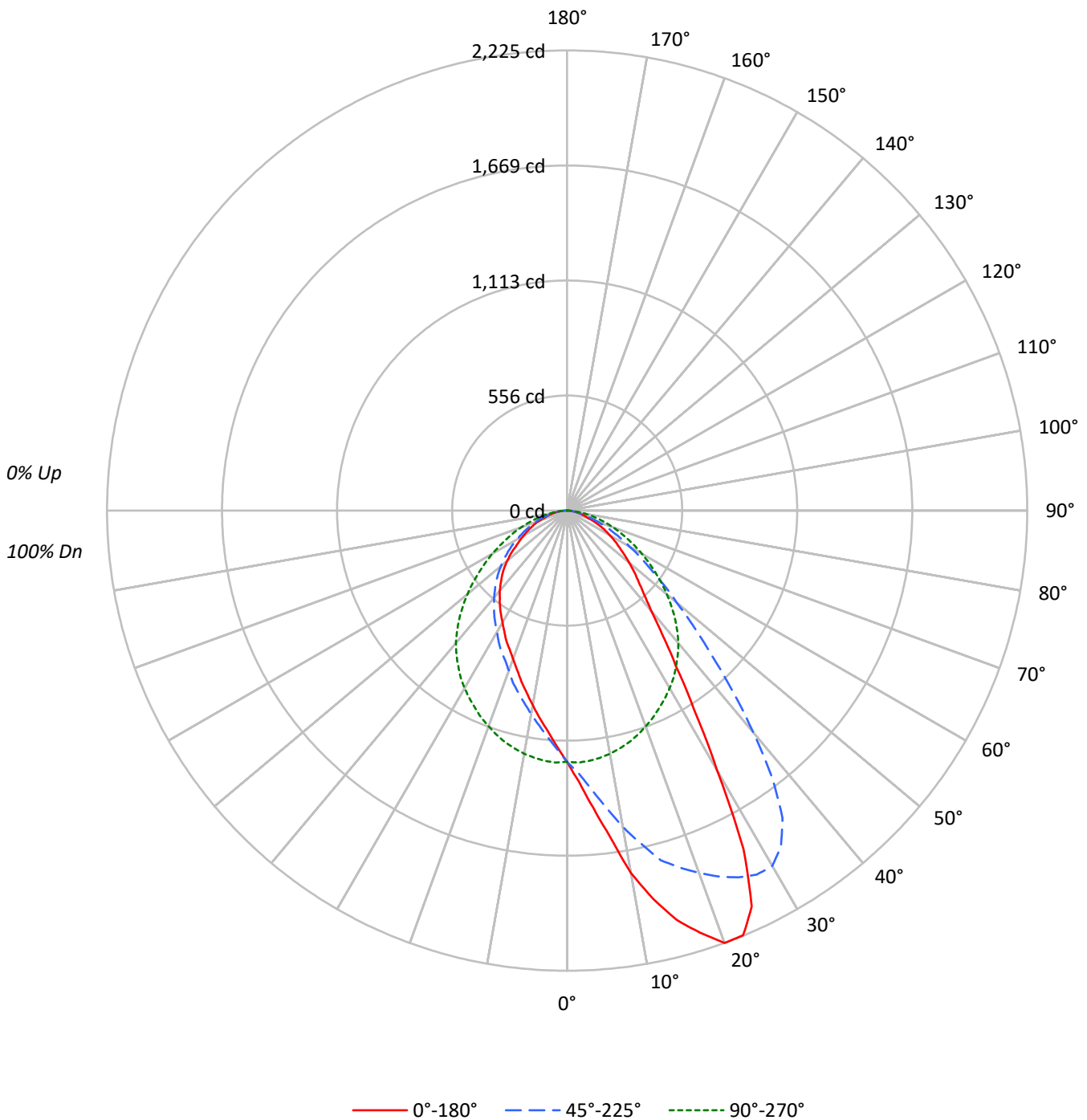
Lumens per Lamp: N/A
Luminaire Lumens: 3023.9 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14720	14720	14720	14720	14720
5°	17547	16459	14782	13347	13018
10°	21909	19120	14697	12298	11760
15°	25716	21959	14548	11436	10725
20°	28701	24047	14323	10629	9845
25°	28242	26171	14086	10068	9303
30°	20300	27766	13869	9488	8746
35°	13554	26863	13585	9093	8386
40°	9986	22144	13244	8695	8011
45°	8377	16897	12646	8324	7645
50°	7392	13028	11861	7873	7137
55°	6481	10393	10964	7405	6437
60°	5772	8482	10107	6805	5898
65°	5071	6949	9184	6278	5487
70°	3980	5582	8364	5766	5011
75°	3508	4117	7306	5212	4576
80°	3050	3518	6206	4572	4502
85°	2462	2670	4993	4631	4770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 23776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	3.9
10°-20°	373.3	12.3
20°-30°	588.0	19.4
30°-40°	611.5	20.2
40°-50°	523.1	17.3
50°-60°	398.7	13.2
60°-70°	255.4	8.4
70°-80°	122.4	4.0
80°-90°	32.2	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°	1080.6	35.7
0°-40°	1692.0	56.0
0°-60°	2613.9	86.4
0°-90°	3023.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1214	1214	1214	1214	1214	
5°	1442	1353	1215	1097	1070	148
15°	2049	1750	1159	911	855	581
25°	2112	1957	1053	753	696	918
35°	916	1815	918	614	567	596
45°	489	986	738	486	446	383
55°	307	492	519	350	305	277
65°	177	242	320	219	191	174
75°	75	88	156	111	98	80
85°	18	19	36	33	34	20
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°	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4
2.5°	1313.2	1315.3	1308.5	1307.5	1299.7	1297.6	1297.6	1286.7	1279.9	1271.1	1265.9
5°	1442.1	1450.4	1446.3	1436.9	1421.3	1417.7	1407.8	1392.2	1374.5	1352.7	1342.3
7.5°	1589.7	1606.9	1603.8	1589.2	1572.6	1562.2	1534.6	1512.3	1478.5	1447.8	1423.9
10°	1780.0	1768.1	1758.7	1744.7	1729.6	1705.2	1676.0	1636.0	1589.7	1553.4	1512.8
12.5°	1922.5	1923.0	1910.5	1895.9	1873.1	1850.2	1812.8	1761.8	1706.2	1649.5	1601.7
15°	2049.3	2052.4	2044.6	2029.5	1999.4	1958.3	1904.3	1884.0	1807.0	1749.9	1692.7
17.5°	2139.8	2140.3	2138.7	2118.4	2085.7	2057.6	2007.2	1959.9	1887.1	1809.6	1733.2
20°	2225.0	2219.8	2220.9	2197.5	2174.6	2140.8	2091.9	2014.5	1957.3	1864.2	1784.7
22.5°	2222.9	2222.9	2227.6	2223.5	2208.4	2184.5	2148.6	2086.2	2009.3	1915.2	1823.2
25°	2111.7	2107.5	2132.0	2138.7	2165.2	2169.9	2158.5	2122.6	2053.5	1956.8	1846.0
27.5°	1846.6	1831.5	1882.4	1932.9	1999.9	2042.5	2086.2	2096.1	2063.3	1984.3	1868.4
30°	1450.4	1499.3	1522.2	1604.3	1695.8	1805.0	1900.6	1991.6	2014.0	1983.8	1892.8
32.5°	1142.7	1183.7	1201.9	1269.5	1353.2	1485.8	1641.2	1779.5	1887.6	1924.0	1878.3
35°	916.0	916.5	960.2	991.4	1070.4	1201.9	1341.2	1513.8	1685.4	1815.4	1828.9
37.5°	755.9	758.0	786.0	817.2	880.6	954.5	1083.9	1229.5	1435.9	1629.8	1730.6
40°	631.1	635.8	655.5	686.2	728.8	781.4	877.0	1012.2	1177.5	1399.5	1580.9
42.5°	551.1	559.4	567.2	589.0	611.4	659.7	732.5	829.2	975.8	1182.7	1399.0
45°	488.7	492.8	500.6	511.5	535.5	569.8	621.8	691.9	816.7	985.7	1195.2
47.5°	440.8	438.2	447.1	456.4	472.6	497.5	533.9	594.7	688.3	829.7	1011.1
50°	392.0	391.5	397.2	403.9	419.0	436.2	464.8	507.9	578.6	690.9	853.6
52.5°	346.2	348.8	352.5	361.3	371.2	384.2	409.1	437.2	495.4	588.5	717.4
55°	306.7	308.3	314.0	318.7	326.5	340.5	356.6	382.6	424.2	491.8	603.6
57.5°	272.4	271.9	277.6	278.1	288.0	300.0	313.0	333.2	364.9	418.5	496.5
60°	238.1	236.5	241.2	244.9	249.5	258.9	269.3	289.0	313.0	349.9	414.3
62.5°	206.9	206.4	209.5	213.1	216.8	225.1	233.4	247.5	265.1	294.8	342.6
65°	176.8	178.3	179.9	181.4	183.5	188.7	197.0	207.4	220.4	242.3	279.2
67.5°	145.6	147.6	148.2	151.8	156.0	158.6	163.2	173.1	183.0	202.7	224.6
70°	112.3	111.8	112.3	113.9	119.6	125.3	132.0	138.8	144.5	157.5	175.2
72.5°	92.5	91.5	93.1	93.1	95.1	95.7	99.3	105.5	113.3	121.1	132.6
75°	74.9	74.9	74.9	74.9	76.9	78.0	79.5	81.1	83.7	87.9	97.2
77.5°	58.2	58.2	59.3	59.8	60.3	60.8	61.9	63.4	64.5	66.5	71.2
80°	43.7	44.2	43.7	44.2	44.2	45.2	45.7	47.3	47.8	50.4	52.0
82.5°	30.2	29.6	30.2	30.7	30.7	31.7	31.7	32.8	32.8	33.8	35.4
85°	17.7	16.6	17.7	17.2	18.2	17.2	17.7	18.7	18.7	19.2	21.3
87.5°	5.2	6.2	5.2	5.7	5.7	6.2	6.2	6.2	7.3	6.8	7.3
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°	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4
2.5°	1263.8	1262.2	1255.0	1246.6	1235.7	1228.4	1222.7	1219.6	1210.2	1198.8	1191.0
5°	1331.4	1315.8	1299.1	1278.9	1260.2	1240.9	1229.0	1214.9	1197.8	1178.5	1165.0
7.5°	1398.4	1371.4	1341.8	1311.1	1279.9	1252.4	1226.9	1206.1	1180.1	1153.6	1135.4
10°	1478.0	1433.3	1387.0	1339.7	1296.5	1256.0	1224.8	1194.1	1161.4	1129.7	1105.8
12.5°	1550.2	1487.9	1432.7	1371.9	1313.7	1263.3	1214.9	1177.5	1136.4	1102.1	1074.0
15°	1609.0	1548.7	1484.2	1395.8	1322.5	1261.2	1206.6	1159.3	1111.5	1069.9	1043.4
17.5°	1670.3	1578.8	1494.1	1425.5	1329.8	1255.5	1191.5	1136.4	1084.4	1041.8	1008.5
20°	1705.7	1617.8	1523.7	1429.6	1336.1	1250.3	1172.8	1110.4	1055.8	1005.9	975.8
22.5°	1727.0	1624.6	1524.2	1421.3	1320.5	1230.5	1154.1	1083.9	1023.6	976.8	937.8
25°	1742.6	1624.1	1514.9	1415.1	1313.7	1217.0	1126.0	1053.2	989.3	938.9	899.4
27.5°	1755.1	1617.8	1492.5	1383.9	1281.5	1183.2	1101.1	1023.1	959.1	906.6	863.5
30°	1758.2	1610.0	1466.0	1345.9	1241.4	1153.1	1064.7	990.9	922.2	865.6	826.1
32.5°	1762.3	1590.8	1430.1	1300.7	1193.1	1105.8	1027.8	958.1	887.4	831.8	791.2
35°	1747.8	1586.1	1393.8	1247.2	1140.1	1055.3	983.1	918.1	848.9	794.9	753.8
37.5°	1703.6	1560.6	1357.4	1187.4	1076.6	998.7	938.4	879.1	815.1	755.9	717.9
40°	1629.3	1519.0	1313.7	1133.8	1016.9	936.3	883.2	837.0	775.6	721.1	679.5
42.5°	1518.5	1462.4	1272.1	1077.7	949.3	872.3	829.7	787.1	735.1	679.5	641.0
45°	1378.2	1387.0	1212.3	1017.4	887.9	809.9	767.8	737.7	689.9	644.1	604.1
47.5°	1207.6	1281.5	1148.4	954.0	821.4	748.1	711.2	683.6	650.4	603.0	566.1
50°	1041.3	1159.3	1068.3	890.0	759.5	686.7	650.4	629.0	601.0	565.6	530.8
52.5°	887.9	1016.9	971.6	818.8	692.5	627.5	592.1	575.5	554.7	521.9	491.3
55°	749.1	877.5	865.1	747.0	625.4	565.6	538.6	518.8	503.7	478.8	453.8
57.5°	628.5	752.8	755.4	667.5	567.2	506.3	483.0	467.4	457.0	437.2	412.8
60°	515.7	627.5	649.3	586.9	503.7	451.8	428.9	416.9	409.1	394.1	376.4
62.5°	422.1	513.1	538.6	498.0	442.9	395.1	378.5	367.0	362.3	349.9	334.8
65°	337.4	416.4	440.3	415.4	383.7	344.7	330.1	320.2	315.6	308.3	296.8
67.5°	266.2	327.5	353.5	332.7	320.8	293.2	283.3	277.6	273.4	268.2	258.4
70°	203.8	246.4	273.4	268.8	259.4	246.4	239.7	236.0	231.9	227.7	219.4
72.5°	153.9	179.9	204.8	209.0	201.7	201.7	196.0	194.9	192.9	187.7	184.0
75°	108.7	128.9	146.6	153.4	156.5	159.1	156.5	156.0	155.4	151.3	148.7
77.5°	75.4	88.4	100.3	112.3	116.4	120.1	120.6	122.7	121.1	118.5	117.5
80°	54.6	57.2	65.0	74.9	82.7	85.8	87.9	88.9	88.4	87.9	85.8
82.5°	35.9	38.0	40.5	46.8	53.0	58.7	59.8	59.3	60.8	61.3	59.8
85°	21.3	21.8	22.9	23.9	27.6	33.3	34.8	35.9	36.9	36.9	33.8
87.5°	8.3	7.8	8.8	8.8	10.4	10.9	14.0	16.6	17.2	15.1	15.1
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°	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4	1214.4
2.5°	1188.4	1181.7	1177.0	1166.6	1159.8	1152.5	1145.3	1149.9	1149.4	1148.9	1148.9
5°	1153.6	1141.6	1130.7	1116.7	1107.8	1096.9	1088.6	1087.6	1089.6	1082.4	1078.2
7.5°	1120.8	1105.2	1089.6	1075.1	1059.0	1046.5	1038.7	1035.6	1029.9	1025.2	1021.0
10°	1086.0	1066.8	1051.7	1032.5	1014.8	999.2	989.3	982.5	978.9	975.3	968.5
12.5°	1050.1	1031.4	1011.1	988.8	972.1	953.4	946.7	938.9	931.1	926.9	917.0
15°	1015.3	990.9	970.6	947.7	929.0	911.3	900.9	885.8	883.8	878.6	869.2
17.5°	981.5	954.5	924.8	909.2	890.5	871.8	855.2	850.5	834.9	829.7	820.9
20°	939.9	915.5	894.2	871.8	841.1	824.0	811.5	804.7	792.8	785.5	780.3
22.5°	904.0	879.1	853.6	826.6	802.7	782.9	774.6	763.2	758.0	747.0	741.3
25°	870.3	843.2	813.6	785.5	767.3	752.8	738.2	728.8	719.5	714.8	704.4
27.5°	829.2	802.2	773.6	751.7	730.9	716.4	702.3	694.5	682.6	674.8	669.1
30°	796.4	763.2	739.2	720.0	691.4	677.9	668.0	657.6	649.3	641.0	635.3
32.5°	758.5	728.8	706.5	681.5	661.3	646.2	632.7	623.8	617.1	609.3	603.6
35°	718.5	693.0	669.6	645.7	629.6	614.5	599.4	591.6	584.8	577.6	572.4
37.5°	682.1	658.1	636.3	613.4	593.7	580.7	568.2	563.0	553.7	548.5	543.3
40°	648.8	625.4	601.5	579.6	558.9	549.5	538.6	529.7	521.4	517.8	512.1
42.5°	612.4	589.0	569.8	545.9	529.7	516.2	506.3	496.5	490.8	485.0	482.4
45°	576.5	555.7	536.0	512.6	496.5	485.6	474.1	465.3	459.6	455.9	450.2
47.5°	542.2	520.9	501.1	480.4	464.8	452.3	440.3	434.6	426.8	422.6	418.5
50°	504.3	485.6	464.2	445.5	429.9	417.5	408.1	400.3	393.5	387.8	385.2
52.5°	469.4	449.2	431.5	414.3	397.7	383.1	374.8	366.5	361.8	355.1	351.9
55°	430.4	411.2	395.6	378.5	362.3	350.4	340.0	332.7	327.5	320.2	316.1
57.5°	394.6	377.9	358.7	343.6	326.5	317.1	308.3	297.9	291.6	285.9	281.8
60°	358.2	338.4	322.3	308.3	293.7	280.7	272.9	265.1	258.4	252.7	249.0
62.5°	320.2	303.6	288.5	272.9	259.9	249.0	239.7	233.4	227.7	224.6	220.9
65°	281.2	267.7	252.1	239.7	227.2	218.9	211.6	205.9	201.7	199.1	196.0
67.5°	245.4	232.4	218.3	205.3	197.0	190.3	185.1	179.9	177.8	174.7	172.6
70°	210.5	197.0	185.1	175.7	167.4	162.7	159.6	156.0	153.9	149.7	147.6
72.5°	172.6	163.8	156.0	148.7	142.4	138.3	134.1	129.4	125.8	121.1	119.0
75°	141.9	133.1	126.3	121.1	117.0	111.3	105.5	100.9	99.3	97.7	97.2
77.5°	110.7	105.0	99.8	95.7	89.9	84.7	83.2	82.1	81.6	80.6	80.6
80°	82.7	77.5	73.8	68.6	65.5	65.5	65.5	64.5	65.0	65.0	65.0
82.5°	56.1	51.5	49.9	48.9	48.9	49.4	49.4	49.9	49.4	50.4	49.9
85°	31.7	32.2	33.3	32.8	33.3	33.3	34.3	33.8	34.3	33.3	34.3
87.5°	14.6	16.1	16.6	17.2	17.7	17.2	17.7	17.7	18.2	18.2	18.2
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: P242582

CATALOG NUMBER: S123RDRP-S1000D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1214.4	1214.4	1214.4	1214.4
2.5°	1142.7	1142.1	1142.7	1140.6
5°	1076.6	1076.1	1074.6	1069.9
7.5°	1016.9	1015.8	1011.7	1012.7
10°	964.9	965.4	959.1	955.5
12.5°	914.4	911.3	906.6	902.5
15°	871.3	866.1	853.6	854.7
17.5°	817.7	813.6	813.1	805.8
20°	772.0	769.4	770.4	763.2
22.5°	736.1	733.5	727.8	726.8
25°	701.3	697.1	693.0	695.6
27.5°	665.9	662.8	658.1	658.1
30°	632.7	629.6	627.5	624.9
32.5°	598.9	598.9	594.7	594.7
35°	570.3	567.2	566.1	566.7
37.5°	542.7	538.6	536.5	534.4
40°	512.6	508.4	507.4	506.3
42.5°	478.8	477.8	477.2	475.2
45°	448.6	448.1	445.0	446.0
47.5°	416.4	413.8	412.3	413.8
50°	383.1	382.1	377.4	378.5
52.5°	349.9	345.2	344.2	343.1
55°	312.4	307.8	305.7	304.6
57.5°	275.5	274.0	271.9	273.4
60°	243.8	243.8	243.8	243.3
62.5°	219.4	217.8	217.3	218.3
65°	194.4	193.9	191.8	191.3
67.5°	171.6	169.5	169.5	168.4
70°	145.0	144.0	140.9	141.4
72.5°	116.4	115.4	115.4	114.4
75°	96.7	96.2	95.7	97.7
77.5°	80.6	80.6	81.1	80.1
80°	65.0	65.0	64.5	64.5
82.5°	48.9	49.4	49.9	48.9
85°	34.3	33.8	34.8	34.3
87.5°	19.2	18.2	18.2	18.7
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242582
 CATALOG NUMBER: S123RDRP-S1000D930-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	16.98	18.47	17.35	18.79	19.10	20.38	21.87	20.74	22.18	22.50
	3H	18.07	19.41	18.45	19.74	20.10	21.79	23.12	22.17	23.45	23.81
	4H	18.41	19.66	18.81	20.01	20.39	22.29	23.54	22.69	23.89	24.27
	6H	18.66	19.81	19.07	20.18	20.57	22.64	23.79	23.05	24.16	24.55
	8H	18.73	19.83	19.15	20.22	20.62	22.74	23.84	23.17	24.23	24.63
	12H	18.76	19.82	19.19	20.20	20.63	22.80	23.85	23.23	24.24	24.67
4H	2H	17.96	19.21	18.36	19.56	19.94	20.62	21.87	21.02	22.22	22.60
	3H	19.13	20.17	19.54	20.57	20.97	22.31	23.35	22.72	23.75	24.15
	4H	19.52	20.45	19.95	20.87	21.31	22.92	23.86	23.36	24.27	24.71
	6H	19.83	20.64	20.29	21.08	21.54	23.39	24.20	23.85	24.64	25.10
	8H	19.92	20.68	20.38	21.12	21.59	23.53	24.29	24.00	24.73	25.20
	12H	19.98	20.65	20.46	21.13	21.60	23.63	24.31	24.11	24.79	25.26
8H	4H	19.88	20.64	20.35	21.08	21.55	22.98	23.73	23.44	24.18	24.64
	6H	20.26	20.88	20.76	21.37	21.85	23.51	24.13	24.01	24.63	25.10
	8H	20.39	20.95	20.91	21.46	21.95	23.70	24.26	24.22	24.77	25.26
	12H	20.49	20.98	21.00	21.48	22.04	23.86	24.36	24.37	24.85	25.41
12H	4H	19.91	20.59	20.40	21.07	21.54	22.96	23.64	23.44	24.12	24.59
	6H	20.30	20.86	20.82	21.37	21.86	23.50	24.06	24.01	24.57	25.06
	8H	20.48	20.97	20.99	21.47	22.03	23.73	24.22	24.24	24.72	25.28