

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: P242587

Luminaire Tested: S123RDRP-S1000D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242587
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-S1000D935-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

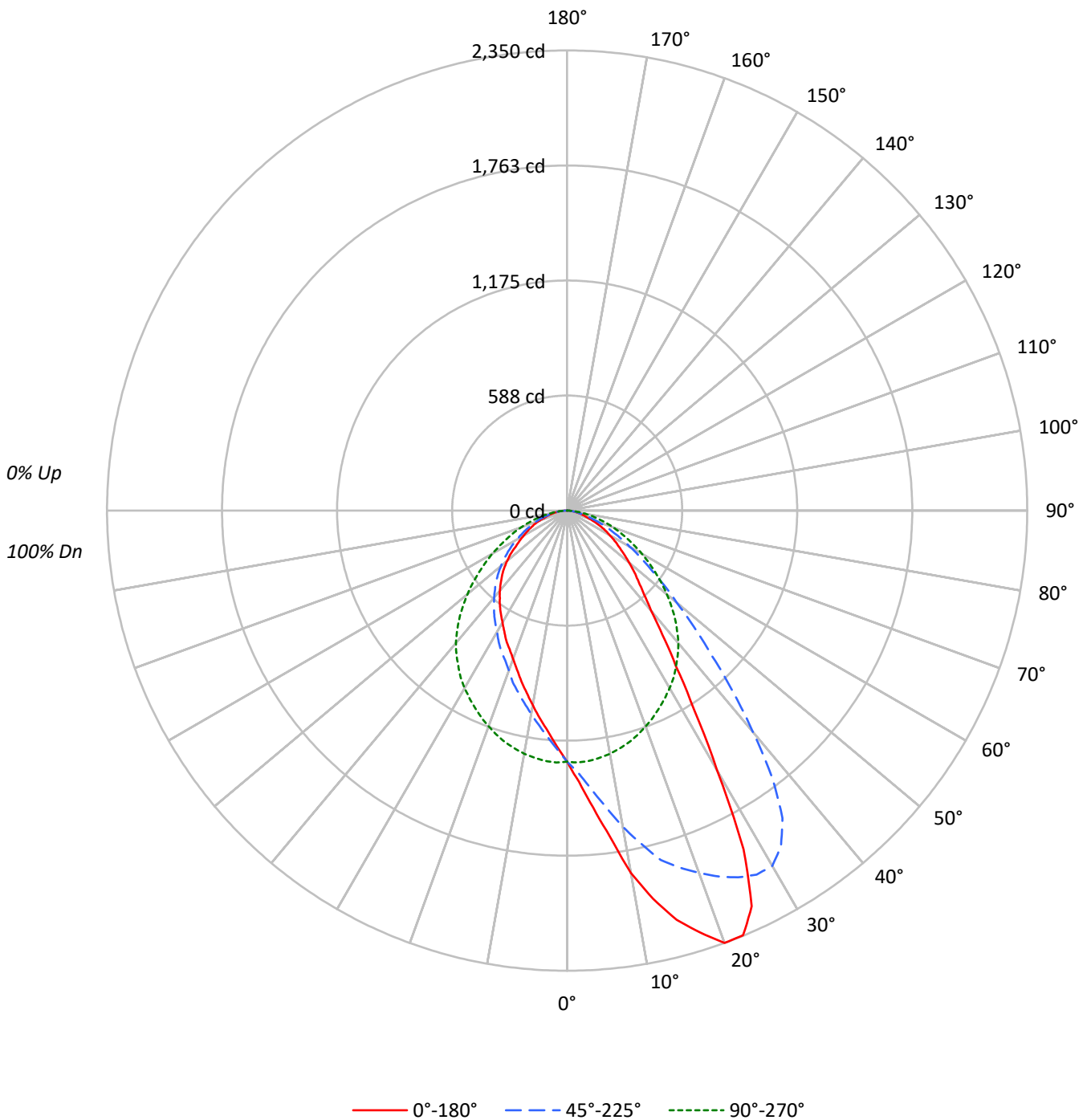
Lumens per Lamp: N/A
Luminaire Lumens: 3193.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (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	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°	15545	15545	15545	15545	15545
5°	18530	17381	15611	14095	13748
10°	23137	20190	15522	12988	12420
15°	27158	23189	15364	12077	11327
20°	30309	25395	15127	11225	10395
25°	29826	27638	14876	10633	9825
30°	21438	29322	14646	10020	9236
35°	14313	28368	14346	9602	8855
40°	10546	23385	13986	9182	8461
45°	8847	17843	13354	8790	8074
50°	7805	13758	12527	8314	7537
55°	6845	10976	11579	7819	6798
60°	6095	8958	10674	7188	6228
65°	5355	7337	9700	6628	5794
70°	4203	5894	8832	6089	5291
75°	3704	4346	7713	5503	4833
80°	3218	3721	6555	4830	4754
85°	2601	2823	5271	4882	5035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 25108 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.9
10°-20°	394.2	12.3
20°-30°	620.9	19.4
30°-40°	645.7	20.2
40°-50°	552.4	17.3
50°-60°	421.1	13.2
60°-70°	269.8	8.4
70°-80°	129.2	4.0
80°-90°	34.0	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°	1141.1	35.7
0°-40°	1786.9	56.0
0°-60°	2760.4	86.4
0°-90°	3193.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3193.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1282	1282	1282	1282	1282	
5°	1523	1428	1283	1158	1130	156
15°	2164	1848	1224	962	903	614
25°	2230	2066	1112	795	735	969
35°	967	1917	970	649	598	629
45°	516	1041	779	513	471	405
55°	324	519	548	370	322	292
65°	187	256	338	231	202	184
75°	79	93	165	118	103	85
85°	19	20	38	35	36	21
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°	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5
2.5°	1386.8	1389.0	1381.8	1380.7	1372.5	1370.3	1370.3	1358.8	1351.6	1342.3	1336.8
5°	1522.9	1531.7	1527.3	1517.4	1501.0	1497.1	1486.7	1470.2	1451.6	1428.5	1417.5
7.5°	1678.9	1697.0	1693.7	1678.3	1660.7	1649.8	1620.7	1597.1	1561.4	1529.0	1503.7
10°	1879.8	1867.2	1857.3	1842.5	1826.5	1800.7	1770.0	1727.7	1678.9	1640.4	1597.6
12.5°	2030.2	2030.8	2017.6	2002.2	1978.1	1953.9	1914.4	1860.6	1801.8	1742.0	1691.5
15°	2164.2	2167.5	2159.2	2143.3	2111.5	2068.1	2011.0	1989.6	1908.3	1847.9	1787.6
17.5°	2259.7	2260.3	2258.6	2237.2	2202.6	2173.0	2119.7	2069.7	1992.9	1911.1	1830.4
20°	2349.7	2344.2	2345.3	2320.6	2296.5	2260.8	2209.2	2127.4	2067.0	1968.7	1884.7
22.5°	2347.5	2347.5	2352.5	2348.1	2332.2	2306.9	2269.0	2203.2	2121.9	2022.5	1925.4
25°	2230.1	2225.7	2251.5	2258.6	2286.6	2291.5	2279.5	2241.6	2168.6	2066.5	1949.5
27.5°	1950.1	1934.1	1987.9	2041.2	2112.0	2157.0	2203.2	2213.6	2179.0	2095.6	1973.1
30°	1531.7	1583.3	1607.5	1694.2	1790.9	1906.1	2007.2	2103.2	2126.8	2095.0	1998.9
32.5°	1206.7	1250.1	1269.3	1340.7	1429.1	1569.1	1733.2	1879.2	1993.4	2031.9	1983.6
35°	967.3	967.9	1014.0	1047.0	1130.4	1269.3	1416.4	1598.7	1779.9	1917.1	1931.4
37.5°	798.3	800.4	830.1	863.0	930.0	1008.0	1144.7	1298.4	1516.4	1721.1	1827.6
40°	666.5	671.4	692.3	724.7	769.7	825.2	926.2	1068.9	1243.5	1477.9	1669.5
42.5°	581.9	590.7	599.0	622.0	645.6	696.7	773.5	875.7	1030.5	1249.0	1477.4
45°	516.1	520.5	528.7	540.2	565.5	601.7	656.6	730.7	862.5	1040.9	1262.2
47.5°	465.6	462.8	472.1	482.0	499.0	525.4	563.8	628.1	726.9	876.2	1067.8
50°	413.9	413.4	419.4	426.6	442.5	460.6	490.8	536.4	611.0	729.6	901.5
52.5°	365.6	368.4	372.2	381.6	392.0	405.7	432.1	461.7	523.2	621.5	757.6
55°	323.9	325.6	331.6	336.5	344.8	359.6	376.6	404.1	448.0	519.4	637.4
57.5°	287.7	287.1	293.2	293.7	304.1	316.8	330.5	351.9	385.4	441.9	524.3
60°	251.4	249.8	254.7	258.6	263.5	273.4	284.4	305.2	330.5	369.5	437.6
62.5°	218.5	218.0	221.2	225.1	228.9	237.7	246.5	261.3	280.0	311.3	361.8
65°	186.7	188.3	190.0	191.6	193.8	199.3	208.1	219.1	232.8	255.8	294.8
67.5°	153.7	155.9	156.5	160.3	164.7	167.4	172.4	182.8	193.2	214.1	237.2
70°	118.6	118.0	118.6	120.2	126.3	132.3	139.4	146.6	152.6	166.3	185.0
72.5°	97.7	96.6	98.3	98.3	100.5	101.0	104.9	111.4	119.7	127.9	140.0
75°	79.1	79.1	79.1	79.1	81.3	82.4	84.0	85.6	88.4	92.8	102.7
77.5°	61.5	61.5	62.6	63.1	63.7	64.2	65.3	67.0	68.1	70.3	75.2
80°	46.1	46.7	46.1	46.7	46.7	47.8	48.3	50.0	50.5	53.3	54.9
82.5°	31.8	31.3	31.8	32.4	32.4	33.5	33.5	34.6	34.6	35.7	37.3
85°	18.7	17.6	18.7	18.1	19.2	18.1	18.7	19.8	19.8	20.3	22.5
87.5°	5.5	6.6	5.5	6.0	6.0	6.6	6.6	6.6	7.7	7.1	7.7
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°	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5
2.5°	1334.6	1333.0	1325.3	1316.5	1305.0	1297.3	1291.3	1288.0	1278.1	1266.0	1257.8
5°	1406.0	1389.5	1372.0	1350.6	1330.8	1310.5	1297.8	1283.0	1264.9	1244.6	1230.3
7.5°	1476.8	1448.3	1417.0	1384.6	1351.6	1322.6	1295.7	1273.7	1246.2	1218.2	1199.0
10°	1560.8	1513.6	1464.7	1414.8	1369.2	1326.4	1293.5	1261.1	1226.5	1193.0	1167.7
12.5°	1637.1	1571.3	1513.1	1448.8	1387.3	1334.1	1283.0	1243.5	1200.1	1163.9	1134.2
15°	1699.2	1635.5	1567.4	1474.1	1396.7	1331.9	1274.2	1224.3	1173.8	1129.9	1101.9
17.5°	1764.0	1667.3	1577.8	1505.4	1404.4	1325.8	1258.3	1200.1	1145.2	1100.2	1065.1
20°	1801.3	1708.5	1609.1	1509.8	1410.9	1320.4	1238.6	1172.7	1115.0	1062.3	1030.5
22.5°	1823.8	1715.6	1609.7	1501.0	1394.5	1299.5	1218.8	1144.7	1081.0	1031.6	990.4
25°	1840.3	1715.1	1599.8	1494.4	1387.3	1285.2	1189.1	1112.3	1044.8	991.5	949.8
27.5°	1853.4	1708.5	1576.2	1461.5	1353.3	1249.5	1162.8	1080.4	1012.9	957.5	911.9
30°	1856.7	1700.3	1548.2	1421.4	1311.0	1217.7	1124.4	1046.4	973.9	914.1	872.4
32.5°	1861.1	1680.0	1510.3	1373.6	1260.0	1167.7	1085.4	1011.8	937.2	878.4	835.6
35°	1845.8	1675.0	1471.9	1317.1	1204.0	1114.5	1038.2	969.5	896.5	839.4	796.1
37.5°	1799.1	1648.1	1433.5	1253.9	1137.0	1054.6	991.0	928.4	860.8	798.3	758.2
40°	1720.6	1604.2	1387.3	1197.4	1073.9	988.8	932.8	883.9	819.1	761.5	717.5
42.5°	1603.6	1544.3	1343.4	1138.1	1002.5	921.2	876.2	831.2	776.3	717.5	676.9
45°	1455.4	1464.7	1280.3	1074.4	937.7	855.3	810.9	779.0	728.5	680.2	637.9
47.5°	1275.3	1353.3	1212.8	1007.4	867.4	790.0	751.0	721.9	686.8	636.8	597.9
50°	1099.7	1224.3	1128.2	939.9	802.1	725.2	686.8	664.3	634.6	597.3	560.5
52.5°	937.7	1073.9	1026.1	864.7	731.3	662.6	625.3	607.7	585.8	551.2	518.8
55°	791.1	926.7	913.5	788.9	660.5	597.3	568.8	547.9	532.0	505.6	479.3
57.5°	663.7	795.0	797.7	704.9	599.0	534.7	510.0	493.6	482.6	461.7	435.9
60°	544.6	662.6	685.7	619.8	532.0	477.1	452.9	440.3	432.1	416.1	397.5
62.5°	445.8	541.9	568.8	525.9	467.8	417.2	399.7	387.6	382.7	369.5	353.6
65°	356.3	439.8	465.0	438.7	405.2	364.0	348.6	338.2	333.2	325.6	313.5
67.5°	281.1	345.9	373.3	351.4	338.7	309.6	299.2	293.2	288.8	283.3	272.9
70°	215.2	260.2	288.8	283.8	274.0	260.2	253.1	249.2	244.9	240.5	231.7
72.5°	162.5	190.0	216.3	220.7	213.0	213.0	207.0	205.9	203.7	198.2	194.3
75°	114.7	136.2	154.8	162.0	165.3	168.0	165.3	164.7	164.2	159.8	157.0
77.5°	79.6	93.3	106.0	118.6	123.0	126.8	127.4	129.6	127.9	125.2	124.1
80°	57.6	60.4	68.6	79.1	87.3	90.6	92.8	93.9	93.3	92.8	90.6
82.5°	37.9	40.1	42.8	49.4	56.0	62.0	63.1	62.6	64.2	64.8	63.1
85°	22.5	23.1	24.2	25.3	29.1	35.1	36.8	37.9	39.0	39.0	35.7
87.5°	8.8	8.2	9.3	9.3	11.0	11.5	14.8	17.6	18.1	15.9	15.9
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°	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5
2.5°	1255.0	1247.9	1242.9	1232.0	1224.8	1217.1	1209.5	1214.4	1213.8	1213.3	1213.3
5°	1218.2	1205.6	1194.1	1179.3	1169.9	1158.4	1149.6	1148.5	1150.7	1143.0	1138.6
7.5°	1183.7	1167.2	1150.7	1135.3	1118.3	1105.1	1096.9	1093.6	1087.6	1082.6	1078.2
10°	1146.9	1126.6	1110.6	1090.3	1071.7	1055.2	1044.8	1037.6	1033.8	1029.9	1022.8
12.5°	1109.0	1089.2	1067.8	1044.2	1026.6	1006.9	999.7	991.5	983.3	978.9	968.4
15°	1072.2	1046.4	1025.0	1000.8	981.1	962.4	951.4	935.5	933.3	927.8	917.9
17.5°	1036.5	1008.0	976.7	960.2	940.4	920.7	903.1	898.2	881.7	876.2	866.9
20°	992.6	966.8	944.3	920.7	888.3	870.2	857.0	849.9	837.2	829.5	824.1
22.5°	954.7	928.4	901.5	872.9	847.7	826.8	818.0	805.9	800.4	788.9	782.9
25°	919.0	890.5	859.2	829.5	810.3	795.0	779.6	769.7	759.8	754.9	743.9
27.5°	875.7	847.1	816.9	793.9	771.9	756.5	741.7	733.5	720.8	712.6	706.6
30°	841.1	805.9	780.7	760.4	730.2	715.9	705.5	694.5	685.7	676.9	670.9
32.5°	801.0	769.7	746.1	719.7	698.3	682.4	668.1	658.8	651.7	643.4	637.4
35°	758.7	731.8	707.1	681.9	664.8	648.9	633.0	624.8	617.6	609.9	604.5
37.5°	720.3	695.0	672.0	647.8	627.0	613.2	600.1	594.6	584.7	579.2	573.7
40°	685.2	660.5	635.2	612.1	590.2	580.3	568.8	559.4	550.7	546.8	540.8
42.5°	646.7	622.0	601.7	576.5	559.4	545.2	534.7	524.3	518.3	512.2	509.5
45°	608.8	586.9	566.0	541.3	524.3	512.8	500.7	491.4	485.3	481.5	475.4
47.5°	572.6	550.1	529.2	507.3	490.8	477.6	465.0	459.0	450.7	446.3	441.9
50°	532.5	512.8	490.3	470.5	454.0	440.9	431.0	422.7	415.6	409.6	406.8
52.5°	495.8	474.3	455.7	437.6	420.0	404.6	395.8	387.0	382.1	375.0	371.7
55°	454.6	434.3	417.8	399.7	382.7	370.0	359.0	351.4	345.9	338.2	333.8
57.5°	416.7	399.1	378.8	362.9	344.8	334.9	325.6	314.6	308.0	302.0	297.6
60°	378.3	357.4	340.4	325.6	310.2	296.5	288.2	280.0	272.9	266.8	263.0
62.5°	338.2	320.6	304.7	288.2	274.5	263.0	253.1	246.5	240.5	237.2	233.3
65°	297.0	282.7	266.3	253.1	239.9	231.1	223.4	217.4	213.0	210.3	207.0
67.5°	259.1	245.4	230.6	216.9	208.1	200.9	195.4	190.0	187.8	184.5	182.3
70°	222.3	208.1	195.4	185.6	176.8	171.8	168.5	164.7	162.5	158.1	155.9
72.5°	182.3	172.9	164.7	157.0	150.4	146.0	141.6	136.7	132.9	127.9	125.7
75°	149.9	140.5	133.4	127.9	123.5	117.5	111.4	106.5	104.9	103.2	102.7
77.5°	116.9	110.9	105.4	101.0	95.0	89.5	87.8	86.7	86.2	85.1	85.1
80°	87.3	81.8	78.0	72.5	69.2	69.2	69.2	68.1	68.6	68.6	68.6
82.5°	59.3	54.4	52.7	51.6	51.6	52.2	52.2	52.7	52.2	53.3	52.7
85°	33.5	34.0	35.1	34.6	35.1	35.1	36.2	35.7	36.2	35.1	36.2
87.5°	15.4	17.0	17.6	18.1	18.7	18.1	18.7	18.7	19.2	19.2	19.2
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: P242587

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1282.5	1282.5	1282.5	1282.5
2.5°	1206.7	1206.2	1206.7	1204.5
5°	1137.0	1136.4	1134.8	1129.9
7.5°	1073.9	1072.8	1068.4	1069.5
10°	1019.0	1019.5	1012.9	1009.1
12.5°	965.7	962.4	957.5	953.1
15°	920.1	914.6	901.5	902.6
17.5°	863.6	859.2	858.6	851.0
20°	815.3	812.5	813.6	805.9
22.5°	777.4	774.6	768.6	767.5
25°	740.6	736.2	731.8	734.6
27.5°	703.3	700.0	695.0	695.0
30°	668.1	664.8	662.6	659.9
32.5°	632.5	632.5	628.1	628.1
35°	602.3	599.0	597.9	598.4
37.5°	573.2	568.8	566.6	564.4
40°	541.3	536.9	535.8	534.7
42.5°	505.6	504.5	504.0	501.8
45°	473.8	473.2	469.9	471.0
47.5°	439.8	437.0	435.4	437.0
50°	404.6	403.5	398.6	399.7
52.5°	369.5	364.5	363.4	362.3
55°	330.0	325.0	322.8	321.7
57.5°	291.0	289.3	287.1	288.8
60°	257.5	257.5	257.5	256.9
62.5°	231.7	230.0	229.5	230.6
65°	205.3	204.8	202.6	202.0
67.5°	181.2	179.0	179.0	177.9
70°	153.2	152.1	148.8	149.3
72.5°	123.0	121.9	121.9	120.8
75°	102.1	101.6	101.0	103.2
77.5°	85.1	85.1	85.6	84.5
80°	68.6	68.6	68.1	68.1
82.5°	51.6	52.2	52.7	51.6
85°	36.2	35.7	36.8	36.2
87.5°	20.3	19.2	19.2	19.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242587
 CATALOG NUMBER: S123RDRP-S1000D935-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	17.17	18.66	17.54	18.98	19.29	20.57	22.06	20.93	22.37	22.69
	3H	18.26	19.60	18.64	19.93	20.29	21.98	23.31	22.35	23.64	24.00
	4H	18.60	19.85	19.00	20.20	20.58	22.48	23.73	22.88	24.08	24.46
	6H	18.85	20.00	19.26	20.37	20.76	22.83	23.98	23.24	24.35	24.74
	8H	18.92	20.02	19.34	20.41	20.81	22.93	24.03	23.36	24.42	24.82
	12H	18.95	20.00	19.38	20.39	20.82	22.99	24.04	23.42	24.43	24.86
4H	2H	18.15	19.40	18.55	19.75	20.13	20.81	22.06	21.21	22.41	22.79
	3H	19.32	20.36	19.73	20.76	21.16	22.50	23.54	22.91	23.94	24.34
	4H	19.71	20.64	20.14	21.06	21.49	23.11	24.04	23.55	24.46	24.90
	6H	20.02	20.83	20.48	21.27	21.73	23.58	24.39	24.04	24.83	25.29
	8H	20.11	20.86	20.57	21.31	21.78	23.72	24.48	24.19	24.92	25.39
	12H	20.17	20.84	20.65	21.32	21.79	23.82	24.50	24.30	24.98	25.45
8H	4H	20.07	20.83	20.54	21.27	21.74	23.17	23.92	23.63	24.37	24.83
	6H	20.45	21.07	20.95	21.56	22.04	23.70	24.32	24.20	24.82	25.29
	8H	20.58	21.14	21.09	21.65	22.14	23.89	24.45	24.41	24.96	25.45
	12H	20.68	21.17	21.19	21.67	22.23	24.05	24.54	24.56	25.04	25.60
12H	4H	20.10	20.78	20.59	21.26	21.73	23.15	23.83	23.63	24.30	24.78
	6H	20.49	21.05	21.01	21.56	22.05	23.69	24.25	24.20	24.76	25.25
	8H	20.67	21.16	21.18	21.65	22.22	23.92	24.41	24.43	24.91	25.47