

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: P243447

Luminaire Tested: S123RDRP-H1000D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-69)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-H1000D935-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

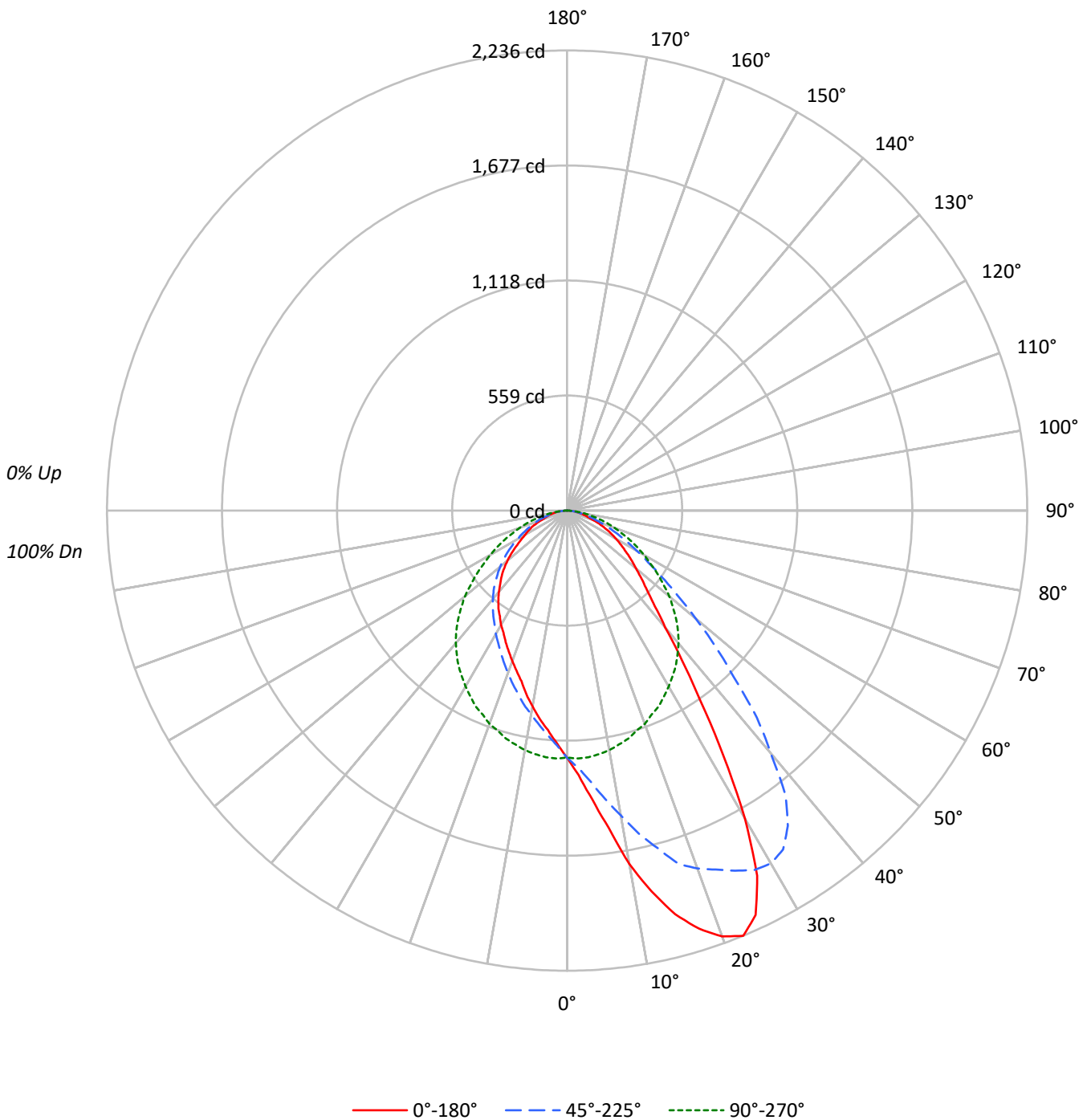
Lumens per Lamp: N/A
Luminaire Lumens: 3128.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49					49			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14552	14552	14552	14552	14552
5°	17155	16101	14633	13302	13030
10°	21475	18514	14546	12365	11892
15°	25485	21303	14401	11565	10772
20°	28403	23876	14228	10852	10029
25°	28991	25823	14052	10205	9442
30°	24159	27707	13813	9699	8981
35°	16690	27666	13622	9250	8606
40°	11728	24360	13312	8875	8152
45°	9418	19619	12839	8477	7712
50°	8210	15355	12229	8005	7136
55°	7361	11853	11317	7481	6352
60°	6659	9438	10456	6785	5755
65°	5828	7747	9634	6141	5381
70°	4703	6301	8672	5639	4554
75°	4079	4950	7549	4758	4468
80°	3762	4056	6443	4558	4488
85°	3310	3463	5188	4103	3894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 24587 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.8
10°-20°	370.8	11.9
20°-30°	594.1	19.0
30°-40°	644.9	20.6
40°-50°	552.5	17.7
50°-60°	418.8	13.4
60°-70°	267.6	8.6
70°-80°	128.0	4.1
80°-90°	33.6	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°	1082.5	34.6
0°-40°	1727.5	55.2
0°-60°	2698.8	86.3
0°-90°	3128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1200	1200	1200	1200	1200	
5°	1410	1323	1203	1093	1071	145
15°	2031	1698	1148	922	858	576
25°	2168	1931	1051	763	706	962
35°	1128	1870	921	625	582	724
45°	549	1144	749	494	450	434
55°	348	561	536	354	301	314
65°	203	270	336	214	188	202
75°	87	106	161	102	95	94
85°	24	25	37	30	28	27
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°	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5
2.5°	1286.5	1288.1	1285.5	1285.0	1284.5	1276.2	1273.6	1269.4	1254.9	1251.3	1248.7
5°	1409.9	1405.8	1410.4	1401.6	1391.8	1386.1	1376.7	1356.0	1337.9	1323.3	1314.0
7.5°	1556.1	1557.6	1553.0	1544.7	1525.0	1516.7	1491.3	1466.4	1442.6	1412.5	1390.2
10°	1744.8	1732.3	1734.9	1709.0	1688.3	1663.4	1628.6	1588.7	1546.7	1504.2	1472.6
12.5°	1895.1	1903.9	1897.7	1885.2	1845.3	1820.9	1789.3	1731.3	1664.9	1607.9	1559.7
15°	2030.9	2019.0	2020.5	1990.4	1975.9	1953.6	1901.3	1843.8	1800.7	1697.6	1640.6
17.5°	2130.4	2129.4	2127.8	2102.4	2084.8	2038.1	1984.7	1925.7	1871.7	1800.2	1728.7
20°	2201.9	2209.7	2207.6	2186.9	2155.8	2110.7	2078.6	2005.0	1916.3	1851.0	1763.4
22.5°	2236.1	2236.7	2237.7	2227.8	2207.1	2178.1	2132.5	2073.4	1994.6	1887.8	1790.4
25°	2167.7	2170.3	2183.8	2192.1	2197.8	2184.8	2161.0	2107.6	2039.7	1930.8	1829.8
27.5°	1999.8	2008.1	2023.1	2072.9	2093.1	2121.1	2130.9	2109.7	2059.4	1968.7	1853.6
30°	1726.1	1749.4	1763.9	1820.4	1899.7	1974.4	2009.6	2044.4	2039.7	1979.6	1862.9
32.5°	1413.0	1428.0	1470.0	1530.7	1593.4	1702.8	1825.1	1909.1	1956.2	1953.1	1870.7
35°	1127.9	1149.7	1185.5	1231.6	1318.2	1431.7	1570.1	1702.2	1820.4	1869.7	1840.1
37.5°	915.4	917.5	951.2	1016.5	1070.4	1170.4	1295.3	1458.6	1613.6	1742.2	1770.7
40°	741.2	755.7	773.4	814.3	878.1	974.0	1056.9	1217.6	1378.3	1539.5	1654.6
42.5°	631.3	631.3	651.0	677.0	719.5	777.0	876.0	1021.7	1166.3	1364.3	1493.9
45°	549.4	554.6	563.4	580.0	610.1	654.7	731.4	830.4	978.1	1144.5	1339.4
47.5°	490.4	489.8	497.6	507.5	530.8	564.5	609.6	689.9	799.3	978.6	1150.7
50°	435.4	437.5	443.2	451.5	467.0	490.9	519.4	580.0	672.3	814.3	994.7
52.5°	392.9	392.4	397.1	402.2	414.2	427.6	453.0	498.1	561.9	674.9	824.7
55°	348.3	350.4	356.1	359.2	369.1	377.9	399.1	424.5	475.8	560.9	697.2
57.5°	310.0	312.6	315.7	318.8	325.5	334.3	352.0	367.5	404.8	466.0	574.8
60°	274.7	273.7	277.3	282.5	286.1	293.9	303.8	319.8	345.7	389.3	469.1
62.5°	239.5	240.0	240.5	243.6	250.4	257.1	265.9	277.8	293.4	325.5	382.0
65°	203.2	203.7	204.7	207.9	214.6	218.7	228.1	238.4	250.9	270.1	309.5
67.5°	171.1	173.1	173.1	175.7	178.3	182.5	189.2	197.0	207.3	221.3	246.7
70°	132.7	132.2	134.8	140.0	142.5	149.8	154.5	159.7	169.0	177.8	199.6
72.5°	106.8	106.8	106.8	108.9	109.4	110.9	114.0	124.9	132.2	141.0	152.9
75°	87.1	87.6	87.6	88.1	88.6	90.2	91.2	94.3	96.4	105.7	113.0
77.5°	69.5	70.0	70.0	70.5	71.0	71.5	73.6	73.6	75.2	77.2	80.3
80°	53.9	53.4	53.4	53.9	53.9	55.5	55.5	56.5	57.0	58.1	59.6
82.5°	38.4	37.8	38.4	37.8	38.4	38.9	39.9	39.4	40.4	41.5	42.0
85°	23.8	24.4	24.4	25.4	24.9	24.4	24.9	24.9	24.9	24.9	25.9
87.5°	10.4	11.4	11.4	10.9	11.4	11.4	10.4	11.4	11.4	11.4	11.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5
2.5°	1247.1	1245.1	1237.3	1230.0	1219.1	1214.5	1208.3	1205.7	1197.4	1186.0	1180.8
5°	1305.2	1289.6	1274.6	1256.5	1241.4	1223.8	1214.0	1202.6	1184.9	1168.9	1157.5
7.5°	1366.9	1344.1	1316.1	1286.0	1259.1	1233.7	1211.9	1193.8	1170.9	1148.7	1131.0
10°	1434.8	1395.9	1350.8	1312.5	1273.6	1236.8	1209.3	1181.8	1152.3	1124.3	1103.0
12.5°	1507.9	1452.9	1398.5	1341.0	1282.9	1240.4	1199.5	1164.2	1131.0	1101.5	1076.1
15°	1583.5	1508.4	1438.9	1374.1	1293.3	1236.3	1191.2	1147.6	1106.1	1069.9	1045.0
17.5°	1637.5	1551.4	1463.8	1372.1	1302.6	1232.1	1176.1	1121.2	1082.8	1045.5	1011.8
20°	1687.2	1589.8	1485.6	1400.1	1303.1	1217.1	1155.9	1103.0	1049.7	1009.7	981.2
22.5°	1708.5	1620.3	1515.1	1396.4	1299.5	1211.4	1132.6	1073.0	1025.3	981.7	944.4
25°	1712.6	1614.1	1506.3	1391.8	1285.5	1190.1	1110.3	1050.7	988.5	943.4	914.4
27.5°	1730.8	1596.0	1490.2	1376.2	1268.4	1168.9	1084.9	1018.5	960.5	912.3	875.0
30°	1735.4	1588.2	1456.0	1347.2	1236.3	1138.8	1053.8	986.9	923.7	874.4	840.8
32.5°	1737.5	1577.8	1420.3	1301.0	1195.3	1103.6	1025.8	953.2	893.1	841.3	806.5
35°	1730.2	1563.3	1377.2	1248.7	1147.1	1056.9	984.9	920.6	853.7	805.0	768.2
37.5°	1701.7	1540.5	1352.9	1187.5	1090.6	1005.6	944.4	881.2	819.5	766.6	728.8
40°	1647.8	1507.3	1307.3	1136.2	1026.3	950.1	893.1	841.3	779.1	728.3	691.0
42.5°	1561.8	1462.3	1265.3	1078.2	962.6	890.5	842.8	798.3	742.3	694.1	653.1
45°	1434.3	1399.0	1209.3	1019.1	893.1	825.2	783.7	749.0	698.2	654.2	616.3
47.5°	1296.4	1304.2	1152.8	958.9	829.9	765.1	728.8	698.2	659.9	612.7	578.0
50°	1137.3	1179.8	1073.5	898.3	766.6	702.9	667.1	648.5	612.7	573.3	540.6
52.5°	991.6	1059.0	993.2	831.9	704.4	641.7	608.5	589.9	566.0	533.4	500.2
55°	840.8	926.3	878.6	760.4	641.2	578.0	550.0	535.5	515.8	490.4	460.3
57.5°	715.8	807.1	777.0	685.3	579.5	522.5	497.6	481.0	469.1	445.8	421.4
60°	593.5	678.0	666.1	598.7	518.3	463.9	444.7	431.3	421.4	404.3	380.5
62.5°	479.0	560.9	568.1	515.2	458.7	409.5	391.9	382.5	374.8	361.3	339.5
65°	379.9	452.0	467.0	426.6	396.0	358.7	341.6	335.9	330.2	314.6	298.0
67.5°	297.5	354.0	373.7	350.9	329.1	307.4	293.9	286.1	282.0	272.6	261.2
70°	227.6	276.3	292.9	283.0	268.5	260.2	249.8	244.7	240.5	228.6	222.4
72.5°	170.5	203.7	224.4	221.3	218.2	212.5	206.3	204.7	198.5	190.8	185.0
75°	124.9	144.1	162.8	169.5	168.5	170.5	163.8	161.2	157.6	151.9	147.2
77.5°	89.7	101.1	114.0	122.3	126.5	127.0	127.0	125.4	122.8	118.7	115.1
80°	62.2	64.8	76.7	84.5	88.6	91.7	91.7	92.3	89.7	88.1	85.5
82.5°	43.0	44.6	47.2	53.4	58.6	62.2	62.7	62.2	61.2	60.6	57.0
85°	27.0	26.4	26.4	28.0	32.1	35.8	36.3	37.3	36.8	36.3	32.7
87.5°	11.4	11.4	11.9	11.4	13.0	13.5	14.5	17.1	16.6	14.0	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°	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5	1200.5
2.5°	1177.7	1170.9	1164.7	1158.0	1149.7	1141.9	1140.9	1139.8	1142.4	1137.3	1135.2
5°	1148.7	1135.7	1125.8	1113.4	1104.6	1093.2	1087.0	1085.4	1084.9	1081.8	1077.6
7.5°	1117.0	1103.0	1089.0	1075.0	1060.5	1048.6	1041.9	1038.2	1035.1	1030.0	1025.8
10°	1087.5	1069.9	1054.8	1035.7	1020.1	1004.6	998.3	993.2	990.0	982.8	977.1
12.5°	1054.3	1032.0	1015.4	994.7	980.7	967.2	957.4	947.5	940.3	929.4	924.7
15°	1025.3	1002.0	974.0	961.5	941.8	921.6	910.7	910.7	895.7	886.9	881.2
17.5°	986.4	966.2	946.5	921.1	893.1	881.2	868.7	857.9	847.5	844.9	834.5
20°	952.2	928.4	908.1	880.7	855.3	841.3	826.8	814.8	807.1	799.8	794.1
22.5°	918.5	894.7	863.6	836.6	819.5	800.8	785.3	774.9	768.2	757.3	752.1
25°	883.3	854.8	826.8	800.3	779.1	763.0	746.9	741.2	729.3	723.6	716.4
27.5°	848.0	813.8	787.4	764.6	740.7	725.2	714.3	703.9	693.5	690.4	686.3
30°	808.6	777.0	751.6	729.3	706.5	693.0	680.1	670.7	661.9	655.2	650.5
32.5°	769.2	742.8	718.4	692.5	671.8	657.3	646.4	638.1	633.9	622.5	618.4
35°	732.9	706.0	680.1	655.7	639.1	625.1	615.3	607.5	598.7	591.4	587.3
37.5°	695.6	671.3	644.8	624.1	605.4	594.0	583.1	572.8	566.0	561.9	556.7
40°	659.3	633.4	613.2	590.4	573.8	560.9	549.4	541.7	533.4	529.7	523.0
42.5°	625.1	600.2	576.9	556.2	541.2	528.7	517.8	509.0	502.3	495.5	491.9
45°	585.7	564.0	542.7	522.0	508.0	494.5	482.6	474.8	465.5	459.8	457.7
47.5°	552.6	529.7	506.9	487.8	473.2	458.7	448.9	439.6	431.8	426.1	423.0
50°	513.2	491.9	473.2	454.1	440.1	424.5	412.6	403.8	395.0	390.8	385.6
52.5°	479.5	458.7	435.9	418.8	402.8	389.3	378.4	371.1	363.4	357.1	353.5
55°	437.5	417.3	399.1	381.0	364.9	354.0	345.2	332.8	326.0	319.8	310.0
57.5°	400.7	381.5	362.3	344.7	329.7	316.7	305.8	297.5	288.7	284.1	277.3
60°	361.8	341.6	324.0	310.5	293.9	279.9	272.6	262.8	255.5	248.3	246.2
62.5°	323.4	304.8	287.2	273.2	258.1	247.3	237.9	233.3	226.0	220.3	218.2
65°	283.5	268.0	251.4	235.8	226.5	214.1	208.9	201.1	197.0	194.4	193.9
67.5°	244.1	230.1	215.1	203.2	194.4	186.1	179.9	176.8	172.6	169.5	166.9
70°	208.4	194.9	181.9	172.1	165.4	159.1	155.0	149.3	145.1	141.0	135.3
72.5°	173.1	162.2	151.4	143.6	136.8	133.2	127.5	118.7	114.6	113.5	113.0
75°	140.5	128.5	120.8	116.6	110.4	101.6	98.0	96.9	96.4	95.4	95.4
77.5°	108.3	101.1	95.9	87.1	84.0	83.5	80.9	80.3	79.3	79.8	79.8
80°	78.8	74.6	68.4	65.8	64.8	65.3	64.3	64.8	63.8	64.3	63.2
82.5°	52.4	48.7	49.8	48.2	48.2	49.2	48.7	47.2	47.2	46.7	46.7
85°	31.1	30.6	31.6	31.6	31.1	29.5	30.6	30.1	28.5	29.0	29.0
87.5°	13.5	13.5	13.5	13.0	13.5	13.0	13.0	13.0	11.4	11.4	11.4
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: P243447

CATALOG NUMBER: S123RDRP-H1000D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1200.5	1200.5	1200.5	1200.5
2.5°	1136.2	1135.2	1133.6	1132.1
5°	1077.6	1073.0	1072.5	1070.9
7.5°	1022.7	1020.6	1017.0	1021.1
10°	972.4	974.0	970.3	966.2
12.5°	920.1	917.0	911.3	914.4
15°	873.9	868.7	865.6	858.4
17.5°	825.7	821.6	821.6	816.9
20°	783.7	779.6	780.6	777.5
22.5°	748.5	745.4	740.7	741.2
25°	715.3	710.7	705.5	706.0
27.5°	678.5	674.4	673.3	669.7
30°	645.9	642.2	641.7	641.7
32.5°	614.2	612.7	610.1	608.5
35°	586.8	584.7	580.5	581.6
37.5°	552.6	550.5	550.0	549.4
40°	520.4	518.9	514.7	515.2
42.5°	488.3	485.7	483.1	482.1
45°	453.6	453.0	448.9	449.9
47.5°	420.4	419.3	417.3	414.7
50°	383.6	383.1	381.5	378.4
52.5°	347.8	346.3	343.1	340.0
55°	307.4	302.7	303.2	300.6
57.5°	274.2	272.1	268.0	266.4
60°	242.1	240.0	239.5	237.4
62.5°	215.1	213.0	211.5	211.5
65°	190.8	188.2	187.6	187.6
67.5°	163.8	161.2	160.7	159.7
70°	130.1	129.6	128.5	128.5
72.5°	112.0	111.4	112.0	109.9
75°	95.4	94.9	94.9	95.4
77.5°	79.3	79.3	78.8	78.8
80°	62.7	63.2	62.7	64.3
82.5°	47.2	46.1	46.7	45.6
85°	29.0	29.0	28.0	28.0
87.5°	11.4	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243447
 CATALOG NUMBER: S123RDRP-H1000D935-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	17.69	19.19	18.06	19.51	19.82	20.39	21.89	20.76	22.21	22.52
	3H	18.88	20.22	19.26	20.55	20.91	21.82	23.16	22.19	23.49	23.85
	4H	19.23	20.49	19.63	20.84	21.22	22.32	23.58	22.72	23.93	24.31
	6H	19.51	20.67	19.92	21.04	21.43	22.66	23.83	23.08	24.19	24.59
	8H	19.60	20.70	20.02	21.09	21.49	22.77	23.87	23.19	24.26	24.66
	12H	19.66	20.72	20.09	21.10	21.53	22.82	23.88	23.26	24.27	24.70
4H	2H	18.64	19.90	19.04	20.25	20.63	20.67	21.93	21.07	22.28	22.66
	3H	19.91	20.95	20.32	21.35	21.76	22.39	23.43	22.80	23.83	24.23
	4H	20.32	21.25	20.75	21.67	22.11	23.00	23.94	23.43	24.36	24.79
	6H	20.66	21.48	21.12	21.92	22.38	23.46	24.27	23.92	24.72	25.18
	8H	20.78	21.54	21.24	21.98	22.45	23.60	24.36	24.06	24.80	25.27
	12H	20.87	21.55	21.35	22.03	22.50	23.69	24.37	24.17	24.85	25.32
8H	4H	20.68	21.44	21.14	21.88	22.35	23.06	23.82	23.52	24.27	24.73
	6H	21.10	21.73	21.60	22.22	22.70	23.59	24.22	24.09	24.71	25.19
	8H	21.26	21.83	21.78	22.34	22.82	23.78	24.34	24.29	24.85	25.34
	12H	21.41	21.91	21.92	22.40	22.96	23.93	24.43	24.44	24.92	25.49
12H	4H	20.71	21.39	21.19	21.87	22.34	23.05	23.73	23.53	24.21	24.68
	6H	21.14	21.71	21.66	22.22	22.71	23.58	24.14	24.09	24.65	25.14
	8H	21.35	21.85	21.86	22.35	22.91	23.81	24.31	24.32	24.80	25.36