

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: P243422

Luminaire Tested: S123RDRP-H1000D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243422
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-H1000D927-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

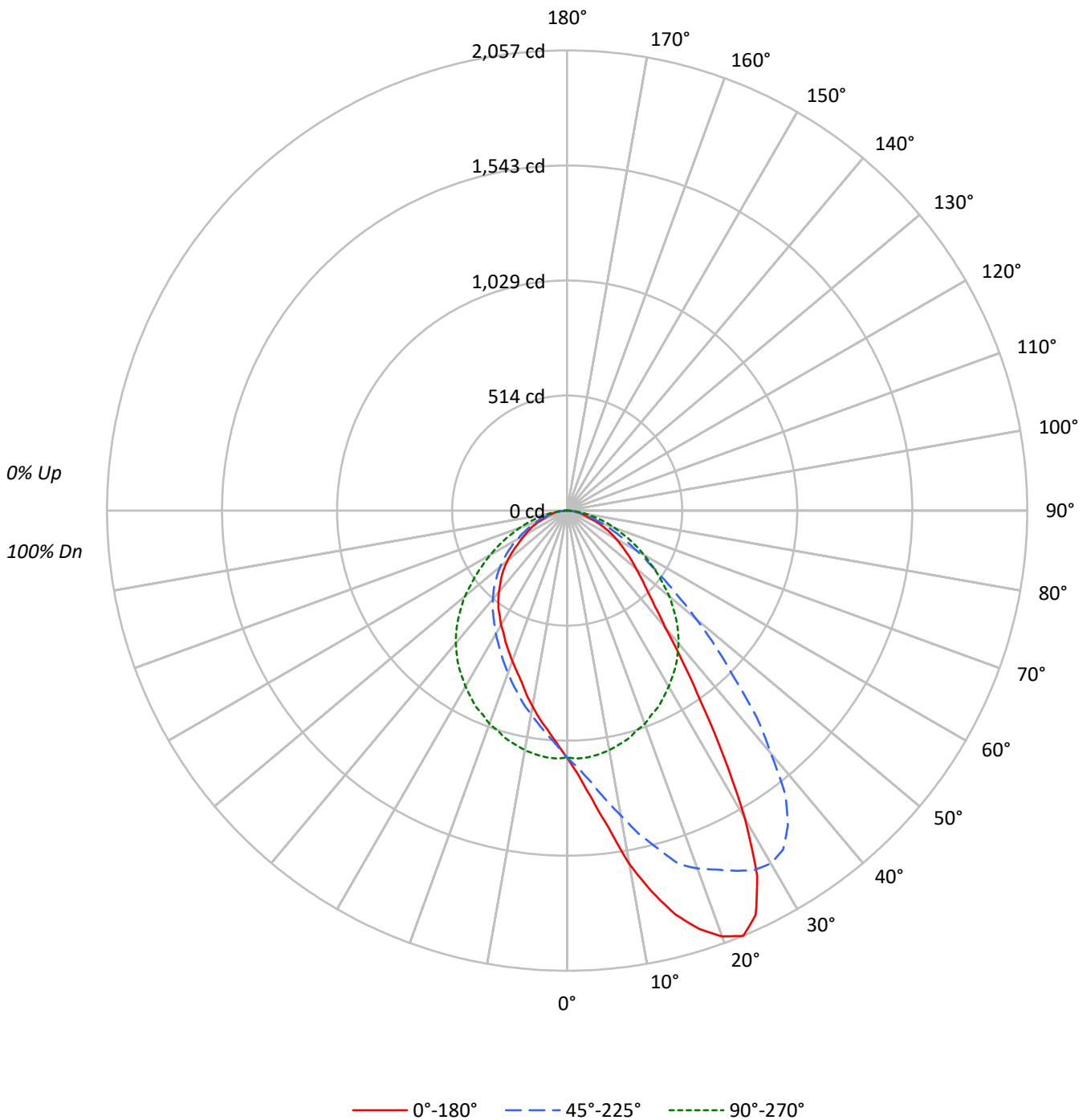
Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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°	13388	13388	13388	13388	13388
5°	15784	14815	13462	12238	11989
10°	19758	17035	13384	11376	10942
15°	23449	19600	13250	10641	9911
20°	26132	21969	13091	9984	9228
25°	26675	23759	12929	9389	8688
30°	22228	25492	12709	8924	8263
35°	15357	25454	12533	8511	7918
40°	10791	22412	12247	8165	7502
45°	8665	18051	11813	7800	7097
50°	7554	14128	11250	7366	6564
55°	6773	10904	10412	6883	5845
60°	6128	8684	9619	6242	5295
65°	5363	7127	8863	5650	4950
70°	4327	5798	7978	5188	4193
75°	3751	4557	6945	4379	4112
80°	3462	3727	5926	4195	4125
85°	3046	3185	4770	3783	3588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 22621 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.8
10°-20°	341.1	11.9
20°-30°	546.6	19.0
30°-40°	593.4	20.6
40°-50°	508.4	17.7
50°-60°	385.3	13.4
60°-70°	246.2	8.6
70°-80°	117.7	4.1
80°-90°	30.9	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°	996.0	34.6
0°-40°	1589.4	55.2
0°-60°	2483.1	86.3
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1104	1104	1104	1104	1104	
5°	1297	1218	1106	1006	985	133
15°	1869	1562	1056	848	790	530
25°	1994	1776	967	702	650	885
35°	1038	1720	847	575	535	667
45°	506	1053	689	455	414	400
55°	320	516	493	326	277	289
65°	187	248	309	197	173	186
75°	80	97	148	94	88	86
85°	22	23	34	27	26	25
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°	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5
2.5°	1183.7	1185.1	1182.8	1182.3	1181.8	1174.2	1171.8	1168.0	1154.6	1151.3	1148.9
5°	1297.2	1293.4	1297.7	1289.6	1280.5	1275.3	1266.7	1247.6	1230.9	1217.6	1209.0
7.5°	1431.7	1433.1	1428.8	1421.2	1403.1	1395.5	1372.1	1349.2	1327.3	1299.6	1279.1
10°	1605.3	1593.9	1596.2	1572.4	1553.3	1530.4	1498.5	1461.7	1423.1	1384.0	1354.9
12.5°	1743.6	1751.7	1746.0	1734.5	1697.8	1675.4	1646.3	1592.9	1531.9	1479.4	1435.0
15°	1868.6	1857.6	1859.0	1831.4	1818.0	1797.5	1749.3	1696.4	1656.8	1561.9	1509.4
17.5°	1960.1	1959.2	1957.7	1934.4	1918.2	1875.2	1826.1	1771.7	1722.1	1656.3	1590.5
20°	2025.9	2033.1	2031.2	2012.1	1983.5	1942.0	1912.4	1844.7	1763.2	1703.1	1622.5
22.5°	2057.4	2057.9	2058.8	2049.8	2030.7	2004.0	1962.0	1907.7	1835.2	1736.9	1647.3
25°	1994.5	1996.8	2009.2	2016.9	2022.1	2010.2	1988.3	1939.1	1876.7	1776.5	1683.5
27.5°	1839.9	1847.6	1861.4	1907.2	1925.8	1951.5	1960.6	1941.0	1894.8	1811.3	1705.5
30°	1588.1	1609.6	1622.9	1674.9	1747.9	1816.6	1849.0	1881.0	1876.7	1821.3	1714.0
32.5°	1300.1	1313.9	1352.5	1408.3	1466.0	1566.7	1679.2	1756.5	1799.9	1797.0	1721.2
35°	1037.8	1057.8	1090.7	1133.2	1212.8	1317.2	1444.6	1566.2	1674.9	1720.2	1693.1
37.5°	842.2	844.1	875.1	935.2	984.8	1076.9	1191.8	1342.0	1484.6	1602.9	1629.1
40°	682.0	695.3	711.6	749.2	807.9	896.1	972.4	1120.3	1268.1	1416.4	1522.3
42.5°	580.9	580.9	599.0	622.9	662.0	714.9	806.0	940.0	1073.1	1255.2	1374.5
45°	505.5	510.3	518.4	533.7	561.3	602.3	672.9	764.0	899.9	1053.0	1232.3
47.5°	451.2	450.7	457.8	466.9	488.4	519.4	560.9	634.8	735.4	900.4	1058.8
50°	400.6	402.5	407.8	415.4	429.7	451.6	477.9	533.7	618.6	749.2	915.2
52.5°	361.5	361.0	365.3	370.1	381.1	393.5	416.8	458.3	517.0	620.9	758.8
55°	320.5	322.4	327.6	330.5	339.6	347.7	367.2	390.6	437.8	516.0	641.5
57.5°	285.2	287.6	290.4	293.3	299.5	307.6	323.8	338.1	372.5	428.7	528.9
60°	252.8	251.8	255.1	259.9	263.3	270.4	279.5	294.3	318.1	358.2	431.6
62.5°	220.3	220.8	221.3	224.2	230.4	236.6	244.7	255.6	269.9	299.5	351.5
65°	187.0	187.4	188.4	191.2	197.4	201.3	209.8	219.4	230.8	248.5	284.7
67.5°	157.4	159.3	159.3	161.7	164.1	167.9	174.1	181.2	190.8	203.6	227.0
70°	122.1	121.6	124.0	128.8	131.2	137.8	142.1	146.9	155.5	163.6	183.6
72.5°	98.2	98.2	98.2	100.2	100.6	102.1	104.9	114.9	121.6	129.7	140.7
75°	80.1	80.6	80.6	81.1	81.6	83.0	83.9	86.8	88.7	97.3	104.0
77.5°	63.9	64.4	64.4	64.9	65.3	65.8	67.7	67.7	69.2	71.1	73.9
80°	49.6	49.1	49.1	49.6	49.6	51.0	51.0	52.0	52.5	53.4	54.8
82.5°	35.3	34.8	35.3	34.8	35.3	35.8	36.7	36.2	37.2	38.2	38.6
85°	21.9	22.4	22.4	23.4	22.9	22.4	22.9	22.9	22.9	22.9	23.8
87.5°	9.5	10.5	10.5	10.0	10.5	10.5	9.5	10.5	10.5	10.5	11.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5
2.5°	1147.5	1145.6	1138.4	1131.7	1121.7	1117.4	1111.7	1109.3	1101.7	1091.2	1086.4
5°	1200.9	1186.6	1172.7	1156.0	1142.2	1126.0	1116.9	1106.4	1090.2	1075.4	1065.0
7.5°	1257.6	1236.6	1210.9	1183.2	1158.4	1135.1	1115.0	1098.3	1077.4	1056.8	1040.6
10°	1320.1	1284.3	1242.8	1207.6	1171.8	1137.9	1112.6	1087.4	1060.2	1034.4	1014.9
12.5°	1387.3	1336.8	1286.7	1233.8	1180.4	1141.3	1103.6	1071.2	1040.6	1013.4	990.1
15°	1457.0	1387.8	1323.9	1264.3	1189.9	1137.4	1096.0	1055.9	1017.7	984.4	961.5
17.5°	1506.6	1427.4	1346.8	1262.4	1198.5	1133.6	1082.1	1031.6	996.3	961.9	930.9
20°	1552.4	1462.7	1366.8	1288.1	1199.0	1119.8	1063.5	1014.9	965.8	929.0	902.8
22.5°	1571.9	1490.8	1394.0	1284.8	1195.6	1114.6	1042.1	987.2	943.3	903.3	868.9
25°	1575.7	1485.1	1385.9	1280.5	1182.8	1095.0	1021.6	966.7	909.5	868.0	841.3
27.5°	1592.4	1468.4	1371.1	1266.2	1167.0	1075.4	998.2	937.1	883.7	839.4	805.0
30°	1596.7	1461.3	1339.7	1239.5	1137.4	1047.8	969.6	908.0	849.9	804.6	773.6
32.5°	1598.6	1451.7	1306.7	1197.1	1099.8	1015.4	943.8	877.0	821.7	774.0	742.1
35°	1591.9	1438.4	1267.2	1148.9	1055.4	972.4	906.1	847.0	785.5	740.6	706.8
37.5°	1565.7	1417.4	1244.7	1092.6	1003.4	925.2	868.9	810.8	754.0	705.4	670.5
40°	1516.1	1386.9	1202.8	1045.4	944.3	874.2	821.7	774.0	716.8	670.1	635.7
42.5°	1436.9	1345.4	1164.2	992.0	885.6	819.3	775.5	734.4	682.9	638.6	600.9
45°	1319.6	1287.2	1112.6	937.6	821.7	759.2	721.1	689.1	642.4	601.9	567.1
47.5°	1192.8	1199.9	1060.7	882.3	763.5	703.9	670.5	642.4	607.1	563.7	531.8
50°	1046.4	1085.5	987.7	826.5	705.4	646.7	613.8	596.6	563.7	527.5	497.4
52.5°	912.3	974.3	913.8	765.4	648.1	590.4	559.9	542.7	520.8	490.7	460.2
55°	773.6	852.2	808.4	699.6	589.9	531.8	506.0	492.7	474.5	451.2	423.5
57.5°	658.6	742.6	714.9	630.5	533.2	480.7	457.8	442.6	431.6	410.1	387.7
60°	546.1	623.8	612.8	550.8	476.9	426.8	409.2	396.8	387.7	372.0	350.1
62.5°	440.7	516.0	522.7	474.1	422.1	376.8	360.5	352.0	344.8	332.4	312.4
65°	349.6	415.9	429.7	392.5	364.4	330.0	314.3	309.0	303.8	289.5	274.2
67.5°	273.7	325.7	343.9	322.9	302.8	282.8	270.4	263.3	259.4	250.9	240.4
70°	209.4	254.2	269.5	260.4	247.0	239.4	229.9	225.1	221.3	210.3	204.6
72.5°	156.9	187.4	206.5	203.6	200.8	195.5	189.8	188.4	182.7	175.5	170.3
75°	114.9	132.6	149.8	156.0	155.0	156.9	150.7	148.3	145.0	139.7	135.4
77.5°	82.5	93.0	104.9	112.6	116.4	116.8	116.8	115.4	113.0	109.2	105.9
80°	57.2	59.6	70.6	77.7	81.6	84.4	84.4	84.9	82.5	81.1	78.7
82.5°	39.6	41.0	43.4	49.1	53.9	57.2	57.7	57.2	56.3	55.8	52.5
85°	24.8	24.3	24.3	25.8	29.6	32.9	33.4	34.3	33.9	33.4	30.0
87.5°	10.5	10.5	11.0	10.5	11.9	12.4	13.4	15.7	15.3	12.9	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5
2.5°	1083.6	1077.4	1071.6	1065.4	1057.8	1050.6	1049.7	1048.7	1051.1	1046.4	1044.4
5°	1056.8	1044.9	1035.9	1024.4	1016.3	1005.8	1000.1	998.7	998.2	995.3	991.5
7.5°	1027.8	1014.9	1002.0	989.1	975.8	964.8	958.6	955.3	952.4	947.6	943.8
10°	1000.6	984.4	970.5	952.9	938.6	924.3	918.5	913.8	910.9	904.2	899.0
12.5°	970.0	949.5	934.3	915.2	902.3	889.9	880.9	871.8	865.1	855.1	850.8
15°	943.3	921.9	896.1	884.7	866.6	848.0	837.9	837.9	824.1	816.0	810.8
17.5°	907.6	889.0	870.8	847.5	821.7	810.8	799.3	789.3	779.8	777.4	767.8
20°	876.1	854.2	835.6	810.3	786.9	774.0	760.7	749.7	742.6	735.9	730.6
22.5°	845.1	823.2	794.5	769.7	754.0	736.8	722.5	713.0	706.8	696.8	692.0
25°	812.7	786.4	760.7	736.4	716.8	702.0	687.2	682.0	671.0	665.8	659.1
27.5°	780.2	748.8	724.4	703.5	681.5	667.2	657.2	647.7	638.1	635.3	631.4
30°	744.0	714.9	691.5	671.0	650.0	637.6	625.7	617.1	609.0	602.8	598.5
32.5°	707.7	683.4	661.0	637.2	618.1	604.7	594.7	587.1	583.3	572.8	569.0
35°	674.4	649.6	625.7	603.3	588.0	575.2	566.1	558.9	550.8	544.2	540.3
37.5°	640.0	617.6	593.3	574.2	557.0	546.5	536.5	527.0	520.8	517.0	512.2
40°	606.6	582.8	564.2	543.2	527.9	516.0	505.5	498.4	490.7	487.4	481.2
42.5°	575.2	552.3	530.8	511.7	497.9	486.5	476.4	468.3	462.1	455.9	452.6
45°	538.9	518.9	499.3	480.3	467.4	455.0	444.0	436.9	428.3	423.0	421.1
47.5°	508.4	487.4	466.4	448.8	435.4	422.1	413.0	404.4	397.3	392.0	389.2
50°	472.1	452.6	435.4	417.8	404.9	390.6	379.6	371.5	363.4	359.6	354.8
52.5°	441.1	422.1	401.1	385.3	370.6	358.2	348.1	341.5	334.3	328.6	325.3
55°	402.5	383.9	367.2	350.5	335.7	325.7	317.6	306.2	300.0	294.3	285.2
57.5°	368.7	351.0	333.4	317.1	303.3	291.4	281.4	273.7	265.6	261.3	255.1
60°	332.9	314.3	298.1	285.7	270.4	257.5	250.9	241.8	235.1	228.4	226.5
62.5°	297.6	280.4	264.2	251.3	237.5	227.5	218.9	214.6	207.9	202.7	200.8
65°	260.9	246.6	231.3	217.0	208.4	197.0	192.2	185.0	181.2	178.8	178.4
67.5°	224.6	211.8	197.9	187.0	178.8	171.2	165.5	162.6	158.8	156.0	153.6
70°	191.7	179.3	167.4	158.3	152.1	146.4	142.6	137.4	133.5	129.7	124.5
72.5°	159.3	149.3	139.3	132.1	125.9	122.6	117.3	109.2	105.4	104.4	104.0
75°	129.2	118.3	111.1	107.3	101.6	93.5	90.1	89.2	88.7	87.8	87.8
77.5°	99.7	93.0	88.2	80.1	77.3	76.8	74.4	73.9	73.0	73.4	73.4
80°	72.5	68.7	63.0	60.6	59.6	60.1	59.1	59.6	58.7	59.1	58.2
82.5°	48.2	44.8	45.8	44.4	44.4	45.3	44.8	43.4	43.4	42.9	42.9
85°	28.6	28.1	29.1	29.1	28.6	27.2	28.1	27.7	26.2	26.7	26.7
87.5°	12.4	12.4	12.4	11.9	12.4	11.9	11.9	11.9	10.5	10.5	10.5
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: P243422

CATALOG NUMBER: S123RDRP-H1000D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1104.5	1104.5	1104.5	1104.5
2.5°	1045.4	1044.4	1043.0	1041.6
5°	991.5	987.2	986.7	985.3
7.5°	941.0	939.0	935.7	939.5
10°	894.7	896.1	892.8	889.0
12.5°	846.5	843.7	838.4	841.3
15°	804.1	799.3	796.4	789.8
17.5°	759.7	755.9	755.9	751.6
20°	721.1	717.3	718.2	715.4
22.5°	688.7	685.8	681.5	682.0
25°	658.1	653.9	649.1	649.6
27.5°	624.3	620.5	619.5	616.2
30°	594.2	590.9	590.4	590.4
32.5°	565.1	563.7	561.3	559.9
35°	539.9	538.0	534.1	535.1
37.5°	508.4	506.5	506.0	505.5
40°	478.8	477.4	473.6	474.1
42.5°	449.3	446.9	444.5	443.5
45°	417.3	416.8	413.0	414.0
47.5°	386.8	385.8	383.9	381.5
50°	352.9	352.4	351.0	348.1
52.5°	320.0	318.6	315.7	312.9
55°	282.8	278.5	279.0	276.6
57.5°	252.3	250.4	246.6	245.1
60°	222.7	220.8	220.3	218.4
62.5°	197.9	196.0	194.6	194.6
65°	175.5	173.1	172.6	172.6
67.5°	150.7	148.3	147.8	146.9
70°	119.7	119.2	118.3	118.3
72.5°	103.0	102.5	103.0	101.1
75°	87.8	87.3	87.3	87.8
77.5°	73.0	73.0	72.5	72.5
80°	57.7	58.2	57.7	59.1
82.5°	43.4	42.4	42.9	42.0
85°	26.7	26.7	25.8	25.8
87.5°	10.5	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243422
 CATALOG NUMBER: S123RDRP-H1000D927-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	17.40	18.90	17.77	19.22	19.53	20.10	21.60	20.47	21.92	22.23
	3H	18.59	19.93	18.97	20.26	20.62	21.53	22.87	21.90	23.20	23.56
	4H	18.94	20.20	19.34	20.55	20.93	22.03	23.29	22.43	23.64	24.02
	6H	19.22	20.38	19.63	20.75	21.14	22.38	23.54	22.79	23.91	24.30
	8H	19.31	20.41	19.73	20.80	21.20	22.48	23.58	22.90	23.97	24.37
	12H	19.37	20.43	19.80	20.81	21.24	22.54	23.59	22.97	23.98	24.41
4H	2H	18.35	19.61	18.75	19.96	20.34	20.38	21.64	20.78	21.99	22.37
	3H	19.62	20.66	20.03	21.06	21.47	22.10	23.14	22.51	23.54	23.94
	4H	20.03	20.97	20.46	21.38	21.82	22.71	23.65	23.15	24.07	24.51
	6H	20.37	21.19	20.83	21.63	22.09	23.17	23.98	23.63	24.43	24.89
	8H	20.49	21.25	20.95	21.69	22.16	23.31	24.07	23.77	24.51	24.98
	12H	20.58	21.26	21.06	21.74	22.21	23.40	24.08	23.88	24.56	25.03
8H	4H	20.39	21.15	20.85	21.59	22.06	22.77	23.53	23.24	23.98	24.44
	6H	20.81	21.44	21.31	21.93	22.41	23.30	23.93	23.80	24.42	24.90
	8H	20.97	21.54	21.49	22.05	22.53	23.49	24.05	24.00	24.56	25.05
	12H	21.12	21.62	21.63	22.11	22.67	23.64	24.14	24.15	24.63	25.20
12H	4H	20.42	21.10	20.90	21.58	22.05	22.76	23.44	23.24	23.92	24.39
	6H	20.85	21.42	21.37	21.93	22.42	23.29	23.86	23.81	24.37	24.85
	8H	21.06	21.56	21.58	22.06	22.62	23.52	24.02	24.03	24.51	25.08