

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: P243452

Luminaire Tested: S123RDRP-H1000D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243452
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-H1000D940-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

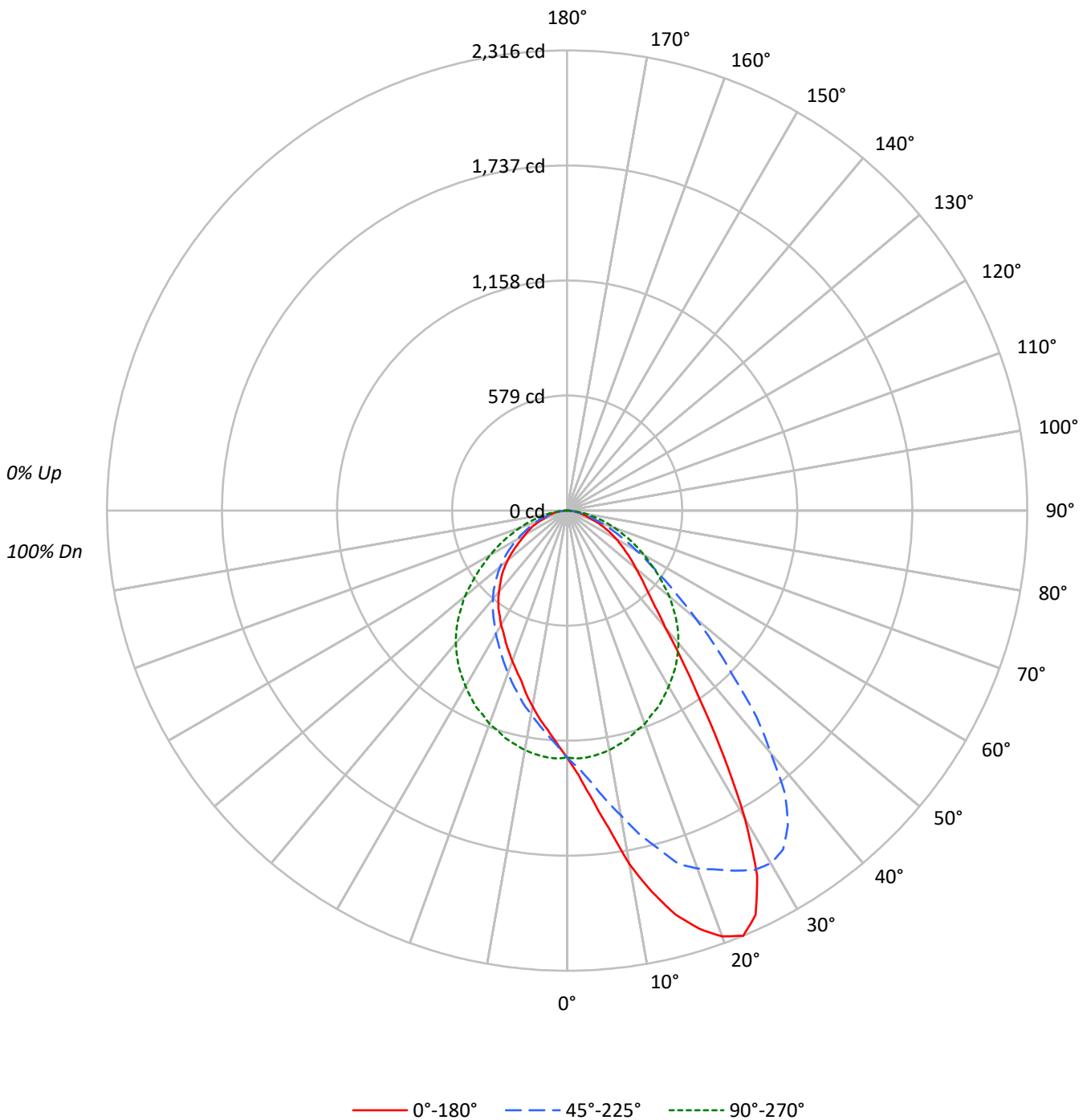
Lumens per Lamp: N/A
Luminaire Lumens: 3239.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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°	15070	15070	15070	15070	15070
5°	17767	16676	15155	13776	13495
10°	22241	19175	15065	12805	12317
15°	26394	22062	14916	11978	11156
20°	29416	24728	14736	11239	10388
25°	30025	26745	14554	10568	9779
30°	25021	28695	14306	10045	9302
35°	17286	28653	14108	9580	8912
40°	12147	25228	13787	9192	8443
45°	9754	20318	13297	8778	7988
50°	8503	15904	12665	8292	7390
55°	7625	12276	11720	7749	6581
60°	6897	9775	10827	7028	5961
65°	6035	8022	9978	6359	5573
70°	4869	6525	8981	5841	4717
75°	4224	5128	7821	4927	4627
80°	3895	4195	6673	4719	4649
85°	3435	3588	5382	4256	4033

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 25463 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	3.8
10°-20°	384.0	11.9
20°-30°	615.2	19.0
30°-40°	667.9	20.6
40°-50°	572.2	17.7
50°-60°	433.8	13.4
60°-70°	277.2	8.6
70°-80°	132.5	4.1
80°-90°	34.8	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°	1121.2	34.6
0°-40°	1789.1	55.2
0°-60°	2795.1	86.3
0°-90°	3239.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1243	1243	1243	1243	1243	
5°	1460	1370	1246	1132	1109	150
15°	2103	1758	1189	954	889	596
25°	2245	2000	1088	790	731	996
35°	1168	1936	953	647	602	750
45°	569	1185	776	512	466	450
55°	361	581	555	367	311	325
65°	210	280	348	222	194	209
75°	90	110	167	105	99	97
85°	25	26	39	31	29	28
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°	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3
2.5°	1332.4	1334.0	1331.3	1330.8	1330.3	1321.7	1319.0	1314.7	1299.7	1295.9	1293.2
5°	1460.2	1455.9	1460.7	1451.6	1441.4	1435.5	1425.8	1404.4	1385.6	1370.5	1360.9
7.5°	1611.6	1613.2	1608.4	1599.8	1579.4	1570.8	1544.5	1518.7	1494.0	1462.9	1439.8
10°	1807.0	1794.1	1796.8	1769.9	1748.5	1722.7	1686.7	1645.4	1601.9	1557.9	1525.1
12.5°	1962.7	1971.8	1965.4	1952.5	1911.1	1885.9	1853.2	1793.0	1724.3	1665.3	1615.3
15°	2103.3	2091.0	2092.6	2061.4	2046.4	2023.3	1969.1	1909.5	1865.0	1758.1	1699.1
17.5°	2206.4	2205.3	2203.7	2177.4	2159.1	2110.8	2055.5	1994.3	1938.5	1864.4	1790.3
20°	2280.5	2288.5	2286.4	2264.9	2232.7	2186.0	2152.7	2076.5	1984.7	1917.0	1826.3
22.5°	2315.9	2316.4	2317.5	2307.3	2285.8	2255.8	2208.5	2147.3	2065.7	1955.2	1854.2
25°	2245.0	2247.7	2261.7	2270.3	2276.2	2262.8	2238.1	2182.8	2112.4	1999.7	1895.0
27.5°	2071.1	2079.7	2095.3	2146.8	2167.7	2196.7	2206.9	2184.9	2132.8	2038.9	1919.7
30°	1787.7	1811.8	1826.8	1885.4	1967.5	2044.8	2081.3	2117.3	2112.4	2050.2	1929.4
32.5°	1463.4	1479.0	1522.5	1585.3	1650.2	1763.5	1890.2	1977.2	2026.0	2022.8	1937.4
35°	1168.2	1190.7	1227.7	1275.5	1365.2	1482.7	1626.1	1763.0	1885.4	1936.4	1905.8
37.5°	948.0	950.2	985.1	1052.7	1108.6	1212.2	1341.5	1510.7	1671.2	1804.3	1833.8
40°	767.7	782.7	801.0	843.4	909.4	1008.7	1094.6	1261.0	1427.4	1594.4	1713.6
42.5°	653.9	653.9	674.3	701.1	745.1	804.7	907.3	1058.1	1207.9	1412.9	1547.2
45°	569.0	574.4	583.5	600.7	631.9	678.0	757.5	860.0	1013.0	1185.3	1387.2
47.5°	507.8	507.3	515.4	525.6	549.7	584.6	631.3	714.5	827.8	1013.5	1191.8
50°	450.9	453.1	459.0	467.6	483.7	508.4	537.9	600.7	696.3	843.4	1030.2
52.5°	406.9	406.4	411.2	416.6	428.9	442.9	469.2	515.9	581.9	699.0	854.1
55°	360.8	362.9	368.8	372.0	382.2	391.4	413.4	439.7	492.8	580.9	722.0
57.5°	321.0	323.7	326.9	330.2	337.1	346.3	364.5	380.6	419.3	482.6	595.3
60°	284.5	283.4	287.2	292.6	296.3	304.4	314.6	331.2	358.1	403.2	485.8
62.5°	248.0	248.6	249.1	252.3	259.3	266.3	275.4	287.7	303.8	337.1	395.6
65°	210.4	211.0	212.0	215.3	222.2	226.5	236.2	246.9	259.8	279.7	320.5
67.5°	177.2	179.3	179.3	182.0	184.7	189.0	195.9	204.0	214.7	229.2	255.5
70°	137.4	136.9	139.6	144.9	147.6	155.1	160.0	165.3	175.0	184.1	206.7
72.5°	110.6	110.6	110.6	112.7	113.3	114.9	118.1	129.4	136.9	146.0	158.4
75°	90.2	90.7	90.7	91.3	91.8	93.4	94.5	97.7	99.9	109.5	117.0
77.5°	71.9	72.5	72.5	73.0	73.5	74.1	76.2	76.2	77.8	80.0	83.2
80°	55.8	55.3	55.3	55.8	55.8	57.4	57.4	58.5	59.1	60.1	61.7
82.5°	39.7	39.2	39.7	39.2	39.7	40.3	41.3	40.8	41.9	42.9	43.5
85°	24.7	25.2	25.2	26.3	25.8	25.2	25.8	25.8	25.8	25.8	26.8
87.5°	10.7	11.8	11.8	11.3	11.8	11.8	10.7	11.8	11.8	11.8	12.3
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°	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3
2.5°	1291.6	1289.5	1281.4	1273.9	1262.6	1257.8	1251.4	1248.7	1240.1	1228.3	1222.9
5°	1351.7	1335.6	1320.1	1301.3	1285.7	1267.5	1257.3	1245.5	1227.2	1210.6	1198.8
7.5°	1415.6	1392.0	1363.0	1331.9	1304.0	1277.7	1255.1	1236.3	1212.7	1189.6	1171.4
10°	1486.0	1445.7	1399.0	1359.3	1319.0	1280.9	1252.4	1224.0	1193.4	1164.4	1142.4
12.5°	1561.7	1504.7	1448.4	1388.8	1328.7	1284.6	1242.2	1205.7	1171.4	1140.8	1114.5
15°	1640.0	1562.2	1490.3	1423.1	1339.4	1280.4	1233.6	1188.6	1145.6	1108.0	1082.3
17.5°	1695.9	1606.7	1516.0	1421.0	1349.1	1276.1	1218.1	1161.2	1121.4	1082.8	1047.9
20°	1747.4	1646.5	1538.6	1450.0	1349.6	1260.5	1197.1	1142.4	1087.1	1045.8	1016.2
22.5°	1769.4	1678.1	1569.2	1446.2	1345.8	1254.6	1173.0	1111.2	1061.9	1016.8	978.1
25°	1773.7	1671.7	1560.0	1441.4	1331.3	1232.6	1149.9	1088.2	1023.7	977.0	947.0
27.5°	1792.5	1652.9	1543.4	1425.3	1313.6	1210.6	1123.6	1054.9	994.8	944.8	906.2
30°	1797.3	1644.9	1508.0	1395.2	1280.4	1179.4	1091.4	1022.1	956.6	905.6	870.7
32.5°	1799.5	1634.1	1470.9	1347.5	1237.9	1142.9	1062.4	987.2	925.0	871.3	835.3
35°	1792.0	1619.1	1426.4	1293.2	1188.0	1094.6	1020.0	953.4	884.2	833.7	795.6
37.5°	1762.4	1595.5	1401.1	1229.9	1129.5	1041.5	978.1	912.6	848.7	794.0	754.8
40°	1706.6	1561.1	1353.9	1176.7	1062.9	984.0	925.0	871.3	806.9	754.3	715.6
42.5°	1617.5	1514.4	1310.4	1116.6	996.9	922.3	872.9	826.7	768.7	718.8	676.4
45°	1485.4	1448.9	1252.4	1055.4	925.0	854.6	811.7	775.7	723.1	677.5	638.3
47.5°	1342.6	1350.7	1193.9	993.1	859.5	792.4	754.8	723.1	683.4	634.5	598.6
50°	1177.8	1221.8	1111.8	930.3	794.0	727.9	690.9	671.6	634.5	593.7	559.9
52.5°	1027.0	1096.8	1028.6	861.6	729.6	664.6	630.2	610.9	586.2	552.4	518.0
55°	870.7	959.3	909.9	787.5	664.1	598.6	569.6	554.6	534.2	507.8	476.7
57.5°	741.4	835.9	804.7	709.7	600.2	541.1	515.4	498.2	485.8	461.7	436.4
60°	614.7	702.2	689.8	620.0	536.8	480.5	460.6	446.6	436.4	418.7	394.0
62.5°	496.0	580.9	588.4	533.6	475.1	424.1	405.8	396.2	388.1	374.2	351.6
65°	393.5	468.1	483.7	441.8	410.1	371.5	353.8	347.9	342.0	325.9	308.7
67.5°	308.1	366.7	387.1	363.4	340.9	318.3	304.4	296.3	292.0	282.4	270.6
70°	235.7	286.1	303.3	293.1	278.1	269.5	258.8	253.4	249.1	236.7	230.3
72.5°	176.6	211.0	232.4	229.2	226.0	220.1	213.7	212.0	205.6	197.6	191.6
75°	129.4	149.2	168.6	175.5	174.5	176.6	169.6	167.0	163.2	157.3	152.5
77.5°	92.9	104.7	118.1	126.7	131.0	131.5	131.5	129.9	127.2	122.9	119.2
80°	64.4	67.1	79.5	87.5	91.8	95.0	95.0	95.6	92.9	91.3	88.6
82.5°	44.6	46.2	48.9	55.3	60.7	64.4	65.0	64.4	63.3	62.8	59.1
85°	27.9	27.4	27.4	29.0	33.3	37.0	37.6	38.7	38.1	37.6	33.8
87.5°	11.8	11.8	12.3	11.8	13.4	14.0	15.0	17.7	17.2	14.5	13.4
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°	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3	1243.3
2.5°	1219.7	1212.7	1206.3	1199.3	1190.7	1182.6	1181.6	1180.5	1183.2	1177.8	1175.7
5°	1189.6	1176.2	1166.0	1153.1	1144.0	1132.2	1125.7	1124.1	1123.6	1120.4	1116.1
7.5°	1156.9	1142.4	1127.9	1113.4	1098.4	1086.0	1079.0	1075.3	1072.1	1066.7	1062.4
10°	1126.3	1108.0	1092.5	1072.6	1056.5	1040.4	1033.9	1028.6	1025.4	1017.8	1011.9
12.5°	1091.9	1068.8	1051.7	1030.2	1015.7	1001.7	991.5	981.3	973.8	962.5	957.7
15°	1061.9	1037.7	1008.7	995.8	975.4	954.5	943.2	943.2	927.6	918.5	912.6
17.5°	1021.6	1000.7	980.3	954.0	925.0	912.6	899.7	888.5	877.7	875.0	864.3
20°	986.2	961.5	940.5	912.1	885.8	871.3	856.3	843.9	835.9	828.3	822.4
22.5°	951.3	926.6	894.4	866.5	848.7	829.4	813.3	802.6	795.6	784.3	778.9
25°	914.8	885.2	856.3	828.9	806.9	790.2	773.6	767.7	755.3	749.4	741.9
27.5°	878.3	842.8	815.5	791.8	767.1	751.0	739.8	729.0	718.3	715.1	710.8
30°	837.5	804.7	778.4	755.3	731.7	717.7	704.3	694.7	685.5	678.6	673.7
32.5°	796.7	769.3	744.1	717.2	695.7	680.7	669.4	660.8	656.5	644.7	640.4
35°	759.1	731.2	704.3	679.1	661.9	647.4	637.2	629.2	620.0	612.5	608.2
37.5°	720.4	695.2	667.8	646.3	627.0	615.2	603.9	593.2	586.2	581.9	576.6
40°	682.9	656.0	635.1	611.5	594.3	580.9	569.0	561.0	552.4	548.6	541.7
42.5°	647.4	621.7	597.5	576.0	560.5	547.6	536.3	527.2	520.2	513.2	509.5
45°	606.6	584.1	562.1	540.6	526.1	512.1	499.8	491.7	482.1	476.2	474.0
47.5°	572.3	548.6	525.0	505.2	490.1	475.1	464.9	455.2	447.2	441.3	438.1
50°	531.5	509.5	490.1	470.3	455.8	439.7	427.3	418.2	409.1	404.8	399.4
52.5°	496.6	475.1	451.5	433.8	417.1	403.2	391.9	384.4	376.3	369.9	366.1
55°	453.1	432.2	413.4	394.6	377.9	366.7	357.5	344.6	337.7	331.2	321.0
57.5°	415.0	395.1	375.2	357.0	341.4	328.0	316.7	308.1	299.0	294.2	287.2
60°	374.7	353.8	335.5	321.6	304.4	289.9	282.4	272.2	264.7	257.1	255.0
62.5°	335.0	315.7	297.4	282.9	267.3	256.1	246.4	241.6	234.1	228.2	226.0
65°	293.6	277.5	260.4	244.3	234.6	221.7	216.3	208.3	204.0	201.3	200.8
67.5°	252.8	238.4	222.8	210.4	201.3	192.7	186.3	183.1	178.8	175.5	172.9
70°	215.8	201.8	188.4	178.2	171.3	164.8	160.5	154.6	150.3	146.0	140.1
72.5°	179.3	168.0	156.8	148.7	141.7	138.0	132.1	122.9	118.6	117.6	117.0
75°	145.5	133.1	125.1	120.8	114.3	105.2	101.5	100.4	99.9	98.8	98.8
77.5°	112.2	104.7	99.3	90.2	87.0	86.4	83.7	83.2	82.1	82.7	82.7
80°	81.6	77.3	70.9	68.2	67.1	67.6	66.6	67.1	66.0	66.6	65.5
82.5°	54.2	50.5	51.5	49.9	49.9	51.0	50.5	48.9	48.9	48.3	48.3
85°	32.2	31.7	32.7	32.7	32.2	30.6	31.7	31.1	29.5	30.1	30.1
87.5°	14.0	14.0	14.0	13.4	14.0	13.4	13.4	13.4	11.8	11.8	11.8
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: P243452

CATALOG NUMBER: S123RDRP-H1000D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1243.3	1243.3	1243.3	1243.3
2.5°	1176.7	1175.7	1174.1	1172.4
5°	1116.1	1111.2	1110.7	1109.1
7.5°	1059.2	1057.0	1053.3	1057.6
10°	1007.1	1008.7	1005.0	1000.7
12.5°	952.9	949.7	943.8	947.0
15°	905.1	899.7	896.5	889.0
17.5°	855.2	850.9	850.9	846.1
20°	811.7	807.4	808.5	805.3
22.5°	775.2	772.0	767.1	767.7
25°	740.8	736.0	730.6	731.2
27.5°	702.7	698.4	697.3	693.6
30°	668.9	665.1	664.6	664.6
32.5°	636.1	634.5	631.9	630.2
35°	607.7	605.5	601.3	602.3
37.5°	572.3	570.1	569.6	569.0
40°	539.0	537.4	533.1	533.6
42.5°	505.7	503.0	500.3	499.3
45°	469.7	469.2	464.9	466.0
47.5°	435.4	434.3	432.2	429.5
50°	397.3	396.7	395.1	391.9
52.5°	360.2	358.6	355.4	352.2
55°	318.3	313.5	314.0	311.4
57.5°	284.0	281.8	277.5	275.9
60°	250.7	248.6	248.0	245.9
62.5°	222.8	220.6	219.0	219.0
65°	197.6	194.9	194.3	194.3
67.5°	169.6	167.0	166.4	165.3
70°	134.7	134.2	133.1	133.1
72.5°	116.0	115.4	116.0	113.8
75°	98.8	98.2	98.2	98.8
77.5°	82.1	82.1	81.6	81.6
80°	65.0	65.5	65.0	66.6
82.5°	48.9	47.8	48.3	47.2
85°	30.1	30.1	29.0	29.0
87.5°	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243452
 CATALOG NUMBER: S123RDRP-H1000D940-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	17.81	19.31	18.18	19.63	19.94	20.51	22.01	20.88	22.33	22.64
	3H	19.00	20.34	19.38	20.67	21.04	21.94	23.28	22.32	23.61	23.97
	4H	19.35	20.61	19.75	20.96	21.34	22.44	23.70	22.84	24.05	24.43
	6H	19.63	20.79	20.04	21.16	21.55	22.79	23.95	23.20	24.32	24.71
	8H	19.72	20.82	20.14	21.21	21.62	22.89	23.99	23.31	24.38	24.79
	12H	19.78	20.84	20.21	21.22	21.65	22.95	24.01	23.38	24.39	24.82
4H	2H	18.76	20.02	19.16	20.37	20.75	20.79	22.05	21.19	22.40	22.78
	3H	20.03	21.08	20.44	21.48	21.88	22.51	23.55	22.92	23.95	24.35
	4H	20.44	21.38	20.87	21.79	22.23	23.12	24.06	23.56	24.48	24.92
	6H	20.79	21.60	21.24	22.04	22.50	23.58	24.39	24.04	24.84	25.30
	8H	20.90	21.66	21.36	22.11	22.57	23.72	24.48	24.18	24.92	25.39
	12H	20.99	21.67	21.47	22.15	22.62	23.81	24.49	24.30	24.97	25.44
8H	4H	20.80	21.56	21.26	22.01	22.47	23.18	23.94	23.65	24.39	24.86
	6H	21.22	21.85	21.72	22.34	22.82	23.71	24.34	24.21	24.83	25.31
	8H	21.38	21.95	21.90	22.46	22.95	23.90	24.46	24.42	24.98	25.46
	12H	21.53	22.03	22.04	22.52	23.09	24.05	24.55	24.56	25.04	25.61
12H	4H	20.83	21.51	21.31	21.99	22.46	23.17	23.85	23.65	24.33	24.80
	6H	21.26	21.83	21.78	22.34	22.83	23.70	24.27	24.22	24.78	25.27
	8H	21.48	21.97	21.99	22.47	23.03	23.93	24.43	24.44	24.92	25.49