

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: P242572

Luminaire Tested: S123RDRP-S1000D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242572
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-S1000D835-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

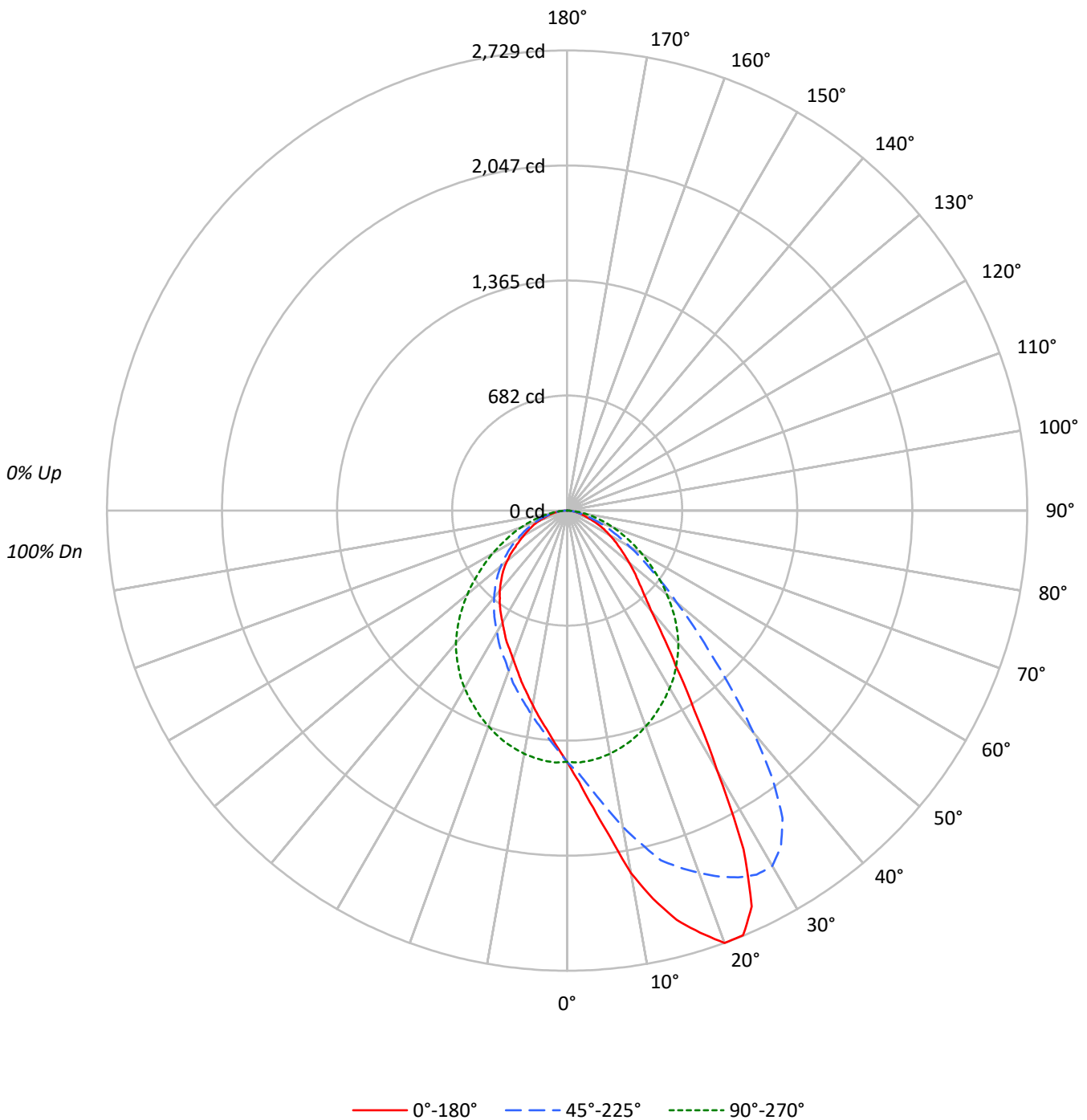
Lumens per Lamp: N/A
Luminaire Lumens: 3708.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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°	18055	18055	18055	18055	18055
5°	21522	20187	18132	16370	15967
10°	26873	23451	18027	15084	14425
15°	31543	26934	17843	14027	13155
20°	35203	29495	17569	13037	12074
25°	34641	32100	17278	12348	11411
30°	24900	34056	17010	11638	10727
35°	16625	32948	16663	11153	10284
40°	12249	27160	16244	10665	9828
45°	10275	20725	15510	10210	9378
50°	9067	15980	14548	9655	8754
55°	7950	12747	13449	9083	7897
60°	7079	10402	12398	8347	7234
65°	6218	8521	11266	7698	6731
70°	4880	6847	10260	7074	6145
75°	4299	5049	8959	6393	5615
80°	3741	4321	7609	5605	5521
85°	3018	3282	6119	5674	5855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 29162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	3.9
10°-20°	457.9	12.3
20°-30°	721.2	19.4
30°-40°	750.0	20.2
40°-50°	641.6	17.3
50°-60°	489.0	13.2
60°-70°	313.3	8.4
70°-80°	150.1	4.0
80°-90°	39.5	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°	1325.4	35.7
0°-40°	2075.4	56.0
0°-60°	3206.0	86.4
0°-90°	3708.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3708.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1490	1490	1490	1490	1490	
5°	1769	1659	1490	1345	1312	181
15°	2514	2146	1422	1118	1048	713
25°	2590	2400	1292	923	853	1125
35°	1124	2227	1126	754	695	731
45°	599	1209	905	596	547	470
55°	376	603	636	430	374	340
65°	217	297	393	268	235	213
75°	92	108	191	136	120	98
85°	22	24	44	41	42	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°	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1610.7	1613.2	1604.9	1603.7	1594.1	1591.5	1591.5	1578.1	1569.9	1559.0	1552.6
5°	1768.8	1779.0	1773.9	1762.4	1743.3	1738.8	1726.7	1707.6	1685.9	1659.1	1646.4
7.5°	1949.9	1970.9	1967.1	1949.3	1928.8	1916.1	1882.3	1854.9	1813.4	1775.8	1746.5
10°	2183.3	2168.6	2157.1	2139.9	2121.4	2091.4	2055.7	2006.6	1949.9	1905.3	1855.5
12.5°	2358.0	2358.6	2343.3	2325.5	2297.4	2269.3	2223.4	2160.9	2092.7	2023.2	1964.6
15°	2513.6	2517.4	2507.8	2489.3	2452.3	2402.0	2335.7	2310.8	2216.4	2146.3	2076.1
17.5°	2624.5	2625.1	2623.2	2598.4	2558.2	2523.8	2461.9	2403.9	2314.6	2219.6	2125.9
20°	2729.1	2722.7	2724.0	2695.3	2667.2	2625.8	2565.8	2470.8	2400.7	2286.6	2189.0
22.5°	2726.5	2726.5	2732.3	2727.2	2708.7	2679.3	2635.3	2558.8	2464.5	2349.1	2236.2
25°	2590.1	2585.0	2614.9	2623.2	2655.8	2661.5	2647.5	2603.5	2518.7	2400.1	2264.2
27.5°	2264.9	2246.4	2308.9	2370.7	2453.0	2505.3	2558.8	2570.9	2530.8	2433.9	2291.7
30°	1779.0	1838.9	1867.0	1967.7	2080.0	2213.9	2331.2	2442.8	2470.2	2433.2	2321.6
32.5°	1401.5	1451.9	1474.2	1557.1	1659.8	1822.4	2013.0	2182.6	2315.3	2359.9	2303.8
35°	1123.5	1124.2	1177.7	1216.0	1312.9	1474.2	1645.1	1856.8	2067.2	2226.6	2243.2
37.5°	927.1	929.7	964.1	1002.4	1080.2	1170.7	1329.5	1508.0	1761.2	1999.0	2122.7
40°	774.1	779.8	804.1	841.7	894.0	958.4	1075.7	1241.5	1444.2	1716.5	1939.1
42.5°	675.9	686.1	695.7	722.4	749.9	809.2	898.4	1017.0	1196.8	1450.6	1715.9
45°	599.4	604.5	614.0	627.4	656.8	698.8	762.6	848.7	1001.7	1209.0	1465.9
47.5°	540.7	537.5	548.4	559.8	579.6	610.2	654.9	729.5	844.2	1017.7	1240.2
50°	480.8	480.1	487.2	495.4	513.9	535.0	570.0	623.0	709.7	847.4	1047.0
52.5°	424.7	427.9	432.3	443.2	455.3	471.2	501.8	536.3	607.7	721.8	879.9
55°	376.2	378.1	385.1	390.9	400.4	417.7	437.4	469.3	520.3	603.2	740.3
57.5°	334.1	333.5	340.5	341.1	353.3	367.9	383.9	408.7	447.6	513.3	608.9
60°	292.0	290.1	295.9	300.3	306.1	317.5	330.3	354.5	383.9	429.1	508.2
62.5°	253.8	253.1	257.0	261.4	265.9	276.1	286.3	303.5	325.2	361.5	420.2
65°	216.8	218.7	220.6	222.5	225.1	231.5	241.7	254.4	270.4	297.1	342.4
67.5°	178.5	181.1	181.7	186.2	191.3	194.5	200.2	212.3	224.4	248.7	275.5
70°	137.7	137.1	137.7	139.6	146.7	153.7	162.0	170.2	177.3	193.2	214.9
72.5°	113.5	112.2	114.1	114.1	116.7	117.3	121.8	129.4	139.0	148.6	162.6
75°	91.8	91.8	91.8	91.8	94.4	95.6	97.6	99.5	102.7	107.8	119.2
77.5°	71.4	71.4	72.7	73.3	74.0	74.6	75.9	77.8	79.1	81.6	87.4
80°	53.6	54.2	53.6	54.2	54.2	55.5	56.1	58.0	58.7	61.9	63.8
82.5°	37.0	36.3	37.0	37.6	37.6	38.9	38.9	40.2	40.2	41.4	43.4
85°	21.7	20.4	21.7	21.0	22.3	21.0	21.7	23.0	23.0	23.6	26.1
87.5°	6.4	7.7	6.4	7.0	7.0	7.7	7.7	7.7	8.9	8.3	8.9
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°	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1550.1	1548.2	1539.3	1529.1	1515.7	1506.7	1499.7	1495.9	1484.4	1470.4	1460.8
5°	1633.0	1613.9	1593.5	1568.6	1545.6	1522.0	1507.4	1490.2	1469.1	1445.5	1428.9
7.5°	1715.2	1682.1	1645.7	1608.1	1569.9	1536.1	1504.8	1479.3	1447.4	1414.9	1392.6
10°	1812.8	1758.0	1701.2	1643.2	1590.3	1540.5	1502.3	1464.6	1424.5	1385.6	1356.3
12.5°	1901.4	1824.9	1757.3	1682.7	1611.3	1549.5	1490.2	1444.2	1393.9	1351.8	1317.4
15°	1973.5	1899.5	1820.5	1712.1	1622.1	1546.9	1480.0	1421.9	1363.3	1312.3	1279.7
17.5°	2048.7	1936.5	1832.6	1748.4	1631.1	1539.9	1461.5	1393.9	1330.1	1277.8	1237.0
20°	2092.1	1984.3	1868.9	1753.5	1638.7	1533.5	1438.5	1362.0	1295.0	1233.8	1196.8
22.5°	2118.2	1992.6	1869.5	1743.3	1619.6	1509.3	1415.6	1329.5	1255.5	1198.1	1150.3
25°	2137.4	1992.0	1858.1	1735.6	1611.3	1492.7	1381.1	1291.9	1213.4	1151.6	1103.1
27.5°	2152.7	1984.3	1830.7	1697.4	1571.8	1451.3	1350.5	1254.9	1176.4	1112.0	1059.1
30°	2156.5	1974.8	1798.1	1650.8	1522.7	1414.3	1305.9	1215.3	1131.2	1061.7	1013.2
32.5°	2161.6	1951.2	1754.1	1595.4	1463.4	1356.3	1260.6	1175.2	1088.4	1020.2	970.5
35°	2143.7	1945.4	1709.5	1529.7	1398.3	1294.4	1205.8	1126.1	1041.3	974.9	924.6
37.5°	2089.5	1914.2	1664.9	1456.4	1320.5	1224.9	1150.9	1078.2	999.8	927.1	880.6
40°	1998.4	1863.2	1611.3	1390.7	1247.2	1148.4	1083.3	1026.6	951.4	884.4	833.4
42.5°	1862.5	1793.7	1560.3	1321.8	1164.3	1070.0	1017.7	965.4	901.6	833.4	786.2
45°	1690.4	1701.2	1487.0	1247.9	1089.1	993.4	941.8	904.8	846.1	790.0	740.9
47.5°	1481.2	1571.8	1408.5	1170.1	1007.5	917.6	872.3	838.5	797.7	739.7	694.4
50°	1277.2	1421.9	1310.3	1091.6	931.6	842.3	797.7	771.5	737.1	693.7	651.0
52.5°	1089.1	1247.2	1191.7	1004.3	849.3	769.6	726.3	705.9	680.4	640.2	602.6
55°	918.8	1076.3	1061.0	916.3	767.1	693.7	660.6	636.4	617.9	587.3	556.7
57.5°	770.9	923.3	926.5	818.7	695.7	621.1	592.4	573.2	560.5	536.3	506.3
60°	632.5	769.6	796.4	719.9	617.9	554.1	526.0	511.4	501.8	483.3	461.6
62.5°	517.8	629.3	660.6	610.9	543.3	484.6	464.2	450.2	444.4	429.1	410.6
65°	413.8	510.7	540.1	509.5	470.6	422.8	404.9	392.8	387.0	378.1	364.1
67.5°	326.5	401.7	433.6	408.1	393.4	359.6	347.5	340.5	335.4	329.0	316.9
70°	250.0	302.2	335.4	329.7	318.2	302.2	294.0	289.5	284.4	279.3	269.1
72.5°	188.7	220.6	251.2	256.3	247.4	247.4	240.4	239.1	236.6	230.2	225.7
75°	133.3	158.1	179.8	188.1	191.9	195.1	191.9	191.3	190.7	185.6	182.4
77.5°	92.5	108.4	123.1	137.7	142.8	147.3	147.9	150.5	148.6	145.4	144.1
80°	67.0	70.1	79.7	91.8	101.4	105.2	107.8	109.0	108.4	107.8	105.2
82.5°	44.0	46.5	49.7	57.4	65.0	72.1	73.3	72.7	74.6	75.2	73.3
85°	26.1	26.8	28.1	29.3	33.8	40.8	42.7	44.0	45.3	45.3	41.4
87.5°	10.2	9.6	10.8	10.8	12.8	13.4	17.2	20.4	21.0	18.5	18.5
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°	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1457.6	1449.3	1443.6	1430.9	1422.6	1413.6	1404.7	1410.5	1409.8	1409.2	1409.2
5°	1414.9	1400.2	1386.9	1369.6	1358.8	1345.4	1335.2	1333.9	1336.5	1327.6	1322.5
7.5°	1374.7	1355.6	1336.5	1318.6	1298.9	1283.6	1274.0	1270.2	1263.2	1257.4	1252.3
10°	1332.0	1308.4	1289.9	1266.3	1244.7	1225.5	1213.4	1205.1	1200.7	1196.2	1187.9
12.5°	1288.0	1265.1	1240.2	1212.8	1192.4	1169.4	1161.1	1151.6	1142.0	1136.9	1124.8
15°	1245.3	1215.3	1190.5	1162.4	1139.5	1117.8	1105.0	1086.5	1084.0	1077.6	1066.1
17.5°	1203.9	1170.7	1134.4	1115.2	1092.3	1069.3	1048.9	1043.2	1024.0	1017.7	1006.8
20°	1152.8	1122.9	1096.7	1069.3	1031.7	1010.7	995.3	987.1	972.4	963.5	957.1
22.5°	1108.8	1078.2	1047.0	1013.8	984.5	960.3	950.1	936.0	929.7	916.3	909.3
25°	1067.4	1034.2	997.9	963.5	941.2	923.3	905.4	894.0	882.5	876.7	864.0
27.5°	1017.0	983.9	948.8	922.0	896.5	878.7	861.4	851.9	837.2	827.7	820.6
30°	976.9	936.0	906.7	883.1	848.1	831.5	819.4	806.6	796.4	786.2	779.2
32.5°	930.3	894.0	866.5	835.9	811.1	792.6	776.0	765.2	756.9	747.3	740.3
35°	881.2	850.0	821.3	791.9	772.2	753.7	735.2	725.6	717.3	708.4	702.0
37.5°	836.6	807.2	780.5	752.4	728.2	712.2	696.9	690.6	679.1	672.7	666.3
40°	795.8	767.1	737.7	711.0	685.5	674.0	660.6	649.8	639.5	635.1	628.1
42.5°	751.1	722.4	698.8	669.5	649.8	633.2	621.1	608.9	601.9	594.9	591.7
45°	707.1	681.6	657.4	628.7	608.9	595.6	581.5	570.7	563.7	559.2	552.2
47.5°	665.1	638.9	614.7	589.2	570.0	554.7	540.1	533.1	523.5	518.4	513.3
50°	618.5	595.6	569.4	546.5	527.3	512.0	500.5	491.0	482.7	475.7	472.5
52.5°	575.8	550.9	529.2	508.2	487.8	469.9	459.7	449.5	443.8	435.5	431.7
55°	528.0	504.4	485.2	464.2	444.4	429.8	417.0	408.1	401.7	392.8	387.7
57.5°	484.0	463.6	440.0	421.5	400.4	389.0	378.1	365.4	357.7	350.7	345.6
60°	439.3	415.1	395.3	378.1	360.3	344.3	334.8	325.2	316.9	309.9	305.4
62.5°	392.8	372.4	353.9	334.8	318.8	305.4	294.0	286.3	279.3	275.5	271.0
65°	345.0	328.4	309.3	294.0	278.6	268.4	259.5	252.5	247.4	244.2	240.4
67.5°	301.0	285.0	267.8	251.9	241.7	233.4	227.0	220.6	218.1	214.2	211.7
70°	258.2	241.7	227.0	215.5	205.3	199.6	195.8	191.3	188.7	183.6	181.1
72.5°	211.7	200.9	191.3	182.4	174.7	169.6	164.5	158.8	154.3	148.6	146.0
75°	174.1	163.2	154.9	148.6	143.5	136.5	129.4	123.7	121.8	119.9	119.2
77.5°	135.8	128.8	122.4	117.3	110.3	103.9	102.0	100.7	100.1	98.8	98.8
80°	101.4	95.0	90.5	84.2	80.3	80.3	80.3	79.1	79.7	79.7	79.7
82.5°	68.9	63.1	61.2	59.9	59.9	60.6	60.6	61.2	60.6	61.9	61.2
85°	38.9	39.5	40.8	40.2	40.8	40.8	42.1	41.4	42.1	40.8	42.1
87.5°	17.9	19.8	20.4	21.0	21.7	21.0	21.7	21.7	22.3	22.3	22.3
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: P242572

CATALOG NUMBER: S123RDRP-S1000D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1489.5	1489.5	1489.5	1489.5
2.5°	1401.5	1400.9	1401.5	1399.0
5°	1320.5	1319.9	1318.0	1312.3
7.5°	1247.2	1245.9	1240.8	1242.1
10°	1183.5	1184.1	1176.4	1172.0
12.5°	1121.6	1117.8	1112.0	1106.9
15°	1068.7	1062.3	1047.0	1048.3
17.5°	1003.0	997.9	997.3	988.3
20°	946.9	943.7	945.0	936.0
22.5°	902.9	899.7	892.7	891.4
25°	860.2	855.1	850.0	853.2
27.5°	816.8	813.0	807.2	807.2
30°	776.0	772.2	769.6	766.4
32.5°	734.6	734.6	729.5	729.5
35°	699.5	695.7	694.4	695.0
37.5°	665.7	660.6	658.0	655.5
40°	628.7	623.6	622.3	621.1
42.5°	587.3	586.0	585.3	582.8
45°	550.3	549.6	545.8	547.1
47.5°	510.7	507.6	505.6	507.6
50°	469.9	468.7	462.9	464.2
52.5°	429.1	423.4	422.1	420.8
55°	383.2	377.5	374.9	373.7
57.5°	337.9	336.0	333.5	335.4
60°	299.1	299.1	299.1	298.4
62.5°	269.1	267.2	266.5	267.8
65°	238.5	237.8	235.3	234.7
67.5°	210.4	207.9	207.9	206.6
70°	177.9	176.6	172.8	173.4
72.5°	142.8	141.6	141.6	140.3
75°	118.6	118.0	117.3	119.9
77.5°	98.8	98.8	99.5	98.2
80°	79.7	79.7	79.1	79.1
82.5°	59.9	60.6	61.2	59.9
85°	42.1	41.4	42.7	42.1
87.5°	23.6	22.3	22.3	23.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242572
 CATALOG NUMBER: S123RDRP-S1000D835-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	19.18	18.06	19.50	19.81	21.09	22.58	21.45	22.89	23.21
	3H	18.78	20.12	19.16	20.45	20.81	22.50	23.83	22.87	24.16	24.52
	4H	19.12	20.37	19.52	20.72	21.10	23.00	24.25	23.40	24.60	24.98
	6H	19.37	20.52	19.78	20.89	21.28	23.35	24.50	23.76	24.87	25.26
	8H	19.44	20.54	19.86	20.93	21.33	23.45	24.55	23.88	24.94	25.34
	12H	19.47	20.52	19.90	20.91	21.34	23.51	24.56	23.94	24.95	25.38
4H	2H	18.67	19.92	19.07	20.27	20.65	21.33	22.58	21.73	22.93	23.31
	3H	19.84	20.88	20.25	21.28	21.68	23.02	24.06	23.43	24.46	24.86
	4H	20.23	21.16	20.66	21.58	22.01	23.63	24.56	24.07	24.98	25.42
	6H	20.54	21.35	21.00	21.79	22.25	24.10	24.91	24.56	25.35	25.81
	8H	20.63	21.38	21.09	21.83	22.30	24.24	25.00	24.71	25.44	25.91
	12H	20.68	21.36	21.17	21.84	22.31	24.34	25.02	24.82	25.50	25.97
8H	4H	20.59	21.35	21.06	21.79	22.26	23.69	24.44	24.15	24.89	25.35
	6H	20.97	21.59	21.46	22.08	22.56	24.22	24.84	24.72	25.34	25.81
	8H	21.10	21.66	21.61	22.17	22.66	24.41	24.97	24.93	25.48	25.97
	12H	21.20	21.69	21.71	22.19	22.75	24.57	25.06	25.08	25.56	26.12
12H	4H	20.62	21.30	21.11	21.78	22.25	23.67	24.35	24.15	24.82	25.30
	6H	21.01	21.57	21.53	22.08	22.57	24.21	24.77	24.72	25.28	25.77
	8H	21.19	21.68	21.70	22.17	22.74	24.44	24.93	24.95	25.43	25.99