

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: P242464

Luminaire Tested: S123DRP-S1000D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-S1000D830-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

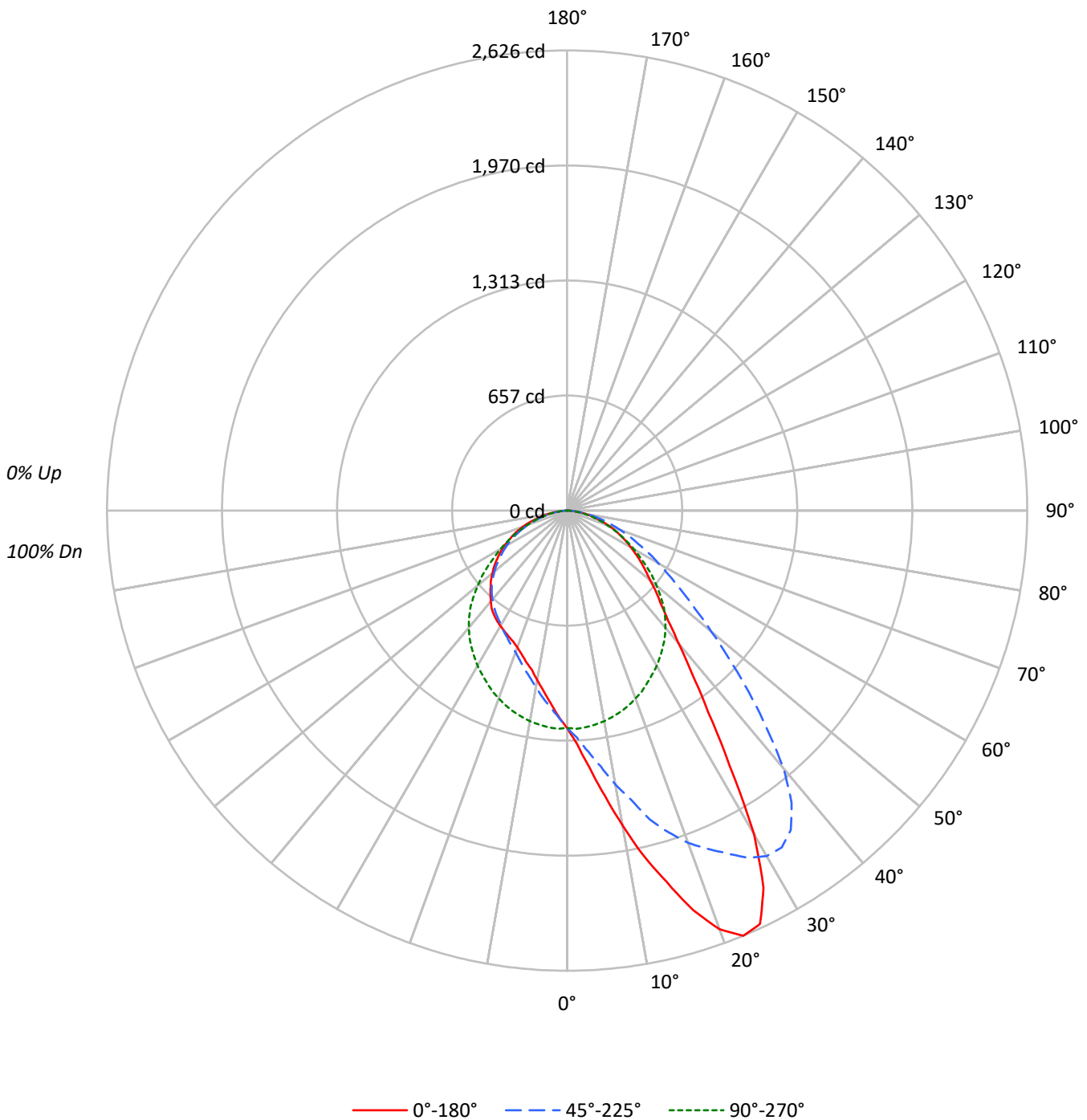
Lumens per Lamp: N/A
Luminaire Lumens: 3743.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53					53			
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47					47			
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41					41			
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36					36			
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15035	15035	15035	15035	15035
5°	17930	16803	15100	13674	13382
10°	22442	19534	15023	12596	12087
15°	27526	22910	14902	11749	11251
20°	32791	26015	14713	11086	10713
25°	34819	28855	14483	10762	10594
30°	29843	31861	14316	10556	10648
35°	20755	32921	14077	10519	10761
40°	15633	30391	13798	10499	10727
45°	12980	25135	13383	10426	10590
50°	11627	20285	12534	10223	10494
55°	10871	16828	11621	9932	10363
60°	10199	14555	10664	9644	10257
65°	9582	12806	9720	9152	9929
70°	8988	11437	8647	8413	9455
75°	8051	9905	7573	7517	8669
80°	7050	8139	6206	6080	7469
85°	5521	6356	4520	4437	5021

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 29711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	3.3
10°-20°	391.8	10.5
20°-30°	659.3	17.6
30°-40°	745.1	19.9
40°-50°	667.4	17.8
50°-60°	538.7	14.4
60°-70°	375.4	10.0
70°-80°	197.0	5.3
80°-90°	47.2	1.3
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°	1173.1	31.3
0°-40°	1918.2	51.2
0°-60°	3124.3	83.5
0°-90°	3743.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1240	1240	1240	1240	1240	
5°	1474	1381	1241	1124	1100	152
15°	2194	1826	1188	936	897	633
25°	2603	2158	1083	805	792	1151
35°	1403	2225	951	711	727	905
45°	757	1466	781	608	618	597
55°	514	796	550	470	490	462
65°	334	446	339	319	346	333
75°	172	212	162	160	185	184
85°	40	46	32	32	36	48
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°	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4
2.5°	1335.3	1334.1	1331.1	1333.5	1328.7	1322.1	1321.5	1315.5	1298.1	1296.9	1292.1
5°	1473.6	1468.8	1468.2	1467.6	1459.1	1447.7	1426.1	1424.3	1395.4	1381.0	1363.6
7.5°	1640.6	1638.8	1634.0	1628.6	1600.4	1586.5	1566.1	1539.7	1506.0	1473.6	1453.1
10°	1823.3	1843.2	1818.5	1801.7	1786.1	1756.6	1722.4	1679.7	1637.0	1587.1	1549.3
12.5°	2019.2	2026.4	2026.4	2010.8	1984.4	1935.7	1868.4	1820.3	1781.9	1690.5	1658.1
15°	2193.5	2230.2	2206.7	2152.6	2153.8	2111.2	2031.9	1944.7	1898.4	1825.7	1726.6
17.5°	2390.6	2397.2	2390.0	2339.5	2314.9	2253.0	2181.5	2100.4	2013.2	1924.9	1822.1
20°	2542.1	2538.5	2517.4	2494.0	2442.3	2396.6	2316.7	2223.6	2103.4	2016.8	1902.0
22.5°	2626.2	2619.6	2612.4	2593.8	2552.9	2503.0	2433.3	2329.3	2216.3	2088.9	1951.9
25°	2603.4	2611.2	2612.4	2607.0	2592.0	2562.5	2506.0	2424.9	2310.7	2157.5	2019.2
27.5°	2426.7	2446.5	2471.8	2488.6	2515.6	2533.7	2515.6	2464.5	2370.8	2233.8	2063.7
30°	2132.2	2108.2	2167.7	2242.8	2293.9	2384.0	2434.5	2437.5	2390.0	2276.4	2111.8
32.5°	1723.6	1762.6	1780.7	1877.4	2004.2	2108.2	2221.2	2321.5	2345.0	2278.8	2140.0
35°	1402.6	1435.7	1483.8	1531.9	1652.0	1755.4	1932.1	2085.9	2208.5	2224.8	2136.4
37.5°	1165.9	1185.1	1214.5	1265.6	1348.0	1476.0	1616.0	1816.1	1985.0	2104.0	2092.0
40°	988.0	992.8	1027.0	1063.7	1127.4	1228.4	1351.6	1523.4	1736.2	1920.7	1997.6
42.5°	854.6	866.6	876.2	911.1	958.5	1028.2	1140.6	1275.2	1465.7	1685.1	1854.0
45°	757.2	769.2	778.2	801.7	837.7	888.8	968.8	1098.6	1247.0	1466.3	1668.9
47.5°	689.9	688.7	696.5	715.1	741.0	781.9	840.7	927.3	1069.7	1253.0	1465.1
50°	616.6	626.2	628.6	642.4	661.7	689.9	736.8	807.7	919.5	1075.7	1266.8
52.5°	564.9	566.1	573.9	582.9	599.2	619.6	658.7	710.3	792.1	919.5	1091.3
55°	514.4	514.4	521.0	528.8	538.5	558.3	585.3	626.2	692.9	796.3	941.7
57.5°	467.5	470.0	476.0	477.8	486.2	500.0	523.4	555.9	607.0	690.5	810.7
60°	420.7	426.1	425.5	430.3	437.5	447.7	466.9	492.2	536.7	600.4	697.7
62.5°	379.8	378.0	378.0	384.0	391.2	400.8	411.7	432.7	468.8	523.4	602.8
65°	334.1	332.9	337.1	340.7	343.1	350.4	360.0	379.2	404.4	446.5	510.8
67.5°	294.5	290.9	293.9	295.1	299.3	305.3	314.9	326.9	347.4	382.8	434.5
70°	253.6	250.6	250.0	251.2	254.8	259.0	265.6	277.0	295.7	322.7	358.2
72.5°	211.5	209.7	209.7	212.7	213.9	216.3	220.6	230.8	244.6	263.2	295.7
75°	171.9	171.9	171.9	172.5	174.3	176.7	180.3	185.7	197.1	211.5	233.8
77.5°	135.8	136.4	135.2	134.6	137.6	138.8	139.4	145.4	152.0	162.9	180.3
80°	101.0	98.0	99.2	101.0	102.2	102.8	104.6	105.8	111.2	116.6	128.0
82.5°	68.5	66.1	66.1	69.1	69.1	69.7	71.5	73.3	74.5	79.3	84.1
85°	39.7	39.7	40.3	40.3	40.9	40.3	42.1	42.7	42.7	45.7	49.3
87.5°	18.0	16.8	17.4	18.0	17.4	18.0	18.6	19.2	19.8	20.4	21.0
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°	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4
2.5°	1288.5	1283.7	1278.8	1270.4	1263.2	1253.0	1250.0	1246.4	1235.6	1226.0	1218.8
5°	1357.0	1342.6	1321.5	1302.3	1286.7	1265.6	1253.6	1241.0	1223.0	1206.7	1193.5
7.5°	1422.5	1397.2	1367.8	1335.9	1305.3	1275.8	1252.4	1231.4	1207.9	1185.1	1167.7
10°	1503.6	1462.7	1417.1	1367.8	1325.7	1284.9	1250.6	1220.6	1188.1	1159.9	1136.4
12.5°	1596.2	1530.7	1463.3	1400.8	1349.2	1288.5	1245.2	1204.9	1167.1	1131.6	1104.6
15°	1665.3	1588.3	1513.8	1431.5	1355.8	1284.9	1235.6	1187.5	1144.8	1110.0	1076.3
17.5°	1733.8	1649.6	1554.7	1455.5	1366.6	1284.9	1217.5	1165.9	1113.6	1071.5	1039.1
20°	1790.3	1691.1	1579.9	1476.0	1375.0	1281.3	1205.5	1140.6	1082.9	1037.9	1000.0
22.5°	1838.9	1718.8	1602.8	1489.8	1374.4	1271.6	1183.3	1116.0	1052.3	1008.4	967.5
25°	1869.6	1730.8	1615.4	1485.0	1359.4	1254.8	1158.7	1082.9	1020.4	968.8	927.3
27.5°	1898.4	1729.0	1598.6	1457.9	1341.3	1237.4	1134.0	1052.9	987.4	931.5	888.8
30°	1927.3	1732.0	1569.1	1430.3	1312.5	1204.3	1104.6	1022.8	953.1	896.0	856.4
32.5°	1945.3	1730.2	1542.1	1391.8	1266.8	1174.3	1072.7	987.4	915.3	859.4	821.5
35°	1950.1	1720.0	1510.2	1335.9	1216.9	1123.8	1039.1	951.3	876.2	823.9	780.7
37.5°	1939.9	1701.3	1475.4	1285.5	1156.9	1064.3	990.4	915.3	843.2	784.9	747.0
40°	1906.9	1683.3	1433.3	1231.4	1094.4	1006.0	945.3	872.0	801.1	746.4	711.5
42.5°	1843.8	1646.6	1387.0	1171.3	1029.4	941.1	886.4	828.1	762.0	711.5	676.7
45°	1733.2	1590.1	1340.7	1111.2	965.7	874.4	825.1	780.7	720.0	670.1	640.0
47.5°	1591.9	1513.8	1274.0	1048.1	899.0	810.7	759.0	722.4	674.9	634.6	605.2
50°	1443.5	1415.3	1206.1	983.2	832.3	746.4	697.1	664.7	632.8	592.5	566.1
52.5°	1272.2	1301.1	1126.8	915.9	764.4	680.3	634.6	610.6	582.3	551.1	528.8
55°	1113.6	1176.7	1033.1	838.9	697.1	616.6	572.7	549.9	533.1	508.4	488.6
57.5°	959.7	1040.3	935.7	761.4	631.0	560.7	517.4	491.6	480.8	466.9	450.7
60°	825.7	905.0	829.9	683.3	564.3	498.2	460.9	439.9	429.1	420.1	406.9
62.5°	706.1	786.7	726.6	604.0	498.8	438.7	407.5	387.0	379.2	375.6	364.8
65°	598.6	667.7	625.6	521.0	436.9	382.8	353.4	338.9	331.1	329.3	322.1
67.5°	505.4	558.9	526.4	447.7	379.2	329.9	304.1	291.5	284.9	284.3	278.2
70°	414.1	463.3	439.9	370.2	313.1	276.4	254.8	244.0	240.4	239.8	236.8
72.5°	343.1	373.8	356.4	301.1	260.2	227.8	213.3	201.9	197.7	198.9	197.1
75°	264.4	290.3	279.4	239.2	203.7	182.1	168.9	161.7	158.1	159.9	157.5
77.5°	201.9	220.0	209.1	178.5	155.6	139.4	129.2	124.4	120.8	120.8	119.6
80°	143.6	153.2	147.8	131.0	113.0	99.8	91.9	88.9	87.1	86.5	85.9
82.5°	91.9	99.8	93.1	82.9	72.1	65.5	61.9	57.7	56.5	57.1	56.5
85°	51.7	54.7	52.3	45.1	40.3	36.7	34.3	32.5	31.3	31.9	30.6
87.5°	22.2	22.8	21.0	18.6	17.4	15.6	15.6	14.4	13.2	13.2	12.6
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°	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4
2.5°	1214.5	1210.3	1204.3	1195.3	1188.1	1176.7	1176.7	1178.5	1178.5	1177.9	1176.7
5°	1182.7	1173.7	1162.9	1150.2	1137.0	1123.8	1121.4	1116.6	1113.0	1110.6	1107.6
7.5°	1150.2	1135.2	1120.2	1102.8	1087.7	1075.1	1066.1	1058.3	1053.5	1048.1	1043.9
10°	1117.2	1097.4	1078.7	1060.1	1039.7	1023.4	1013.2	1006.0	1000.6	995.8	993.4
12.5°	1078.1	1054.7	1033.7	1016.2	993.4	976.6	966.9	964.5	957.9	946.5	940.5
15°	1040.3	1019.2	994.6	967.5	956.7	936.3	924.9	919.5	915.9	908.1	905.7
17.5°	1009.0	980.8	952.5	932.7	912.9	896.6	890.0	882.8	878.0	870.8	869.0
20°	970.0	945.3	920.1	898.4	877.4	859.4	854.0	849.2	844.4	841.3	838.9
22.5°	930.3	905.7	885.8	866.0	843.2	832.9	826.9	821.5	818.5	816.7	814.3
25°	893.6	872.0	848.6	830.5	812.5	804.7	801.1	798.1	795.7	792.7	792.1
27.5°	861.2	837.1	817.3	799.9	786.7	780.0	775.8	774.0	774.0	775.2	775.8
30°	823.9	802.3	786.7	772.2	760.2	754.2	753.6	753.6	756.0	756.6	757.8
32.5°	789.7	772.8	757.2	743.4	735.0	731.4	734.4	734.4	736.2	738.0	740.4
35°	756.6	741.0	729.0	716.9	709.1	710.9	712.1	713.3	716.3	720.0	722.4
37.5°	725.4	710.9	698.3	688.7	683.9	687.5	690.5	692.9	696.5	699.5	701.9
40°	691.1	680.9	668.9	660.5	661.7	663.5	665.9	668.9	671.9	673.7	676.1
42.5°	659.3	648.4	640.0	633.4	635.2	637.6	638.8	640.0	643.6	647.2	648.4
45°	626.8	618.4	610.0	605.8	607.0	608.2	609.4	611.2	614.2	616.6	617.2
47.5°	590.1	584.1	578.7	573.9	576.3	575.7	577.5	581.1	582.3	583.5	587.1
50°	555.3	549.9	543.3	542.1	542.1	542.1	542.7	547.5	547.5	549.9	552.3
52.5°	516.8	513.8	510.2	507.8	506.6	506.6	509.6	511.4	512.6	516.2	518.6
55°	479.0	475.4	471.8	470.0	468.8	470.0	474.8	476.0	479.0	480.8	482.6
57.5°	439.3	436.9	433.9	432.7	432.7	433.3	436.9	439.9	440.5	446.5	448.9
60°	400.2	396.0	393.6	393.6	392.4	397.8	396.6	402.6	403.8	407.5	411.7
62.5°	360.0	354.0	353.4	353.4	355.8	356.4	358.8	360.6	364.2	369.0	372.0
65°	316.1	313.1	317.3	316.7	315.5	319.1	319.1	322.1	325.7	329.9	336.5
67.5°	275.2	272.8	274.0	273.4	275.2	277.6	279.4	281.9	286.1	290.9	295.1
70°	233.8	235.6	232.6	235.0	236.8	237.4	238.6	242.2	247.0	250.0	254.8
72.5°	193.5	192.9	194.1	194.7	196.5	197.7	198.9	203.1	208.5	210.9	214.5
75°	155.0	154.4	156.3	156.3	159.3	160.5	161.7	163.5	168.3	171.9	174.9
77.5°	120.2	120.8	120.2	122.6	121.4	122.0	125.6	127.4	128.0	135.8	137.0
80°	85.3	86.5	87.1	87.7	88.3	87.1	91.3	93.1	93.1	97.4	100.4
82.5°	55.3	55.9	57.7	58.3	58.3	60.1	59.5	60.7	62.5	63.7	67.9
85°	30.6	32.5	33.1	32.5	33.1	31.9	33.7	34.3	34.9	34.9	34.9
87.5°	12.0	12.6	12.0	12.6	12.0	12.6	12.6	11.4	11.4	13.2	10.8
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: P242464

CATALOG NUMBER: S123DRP-S1000D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1240.4	1240.4	1240.4	1240.4
2.5°	1172.5	1171.9	1176.1	1173.1
5°	1104.0	1105.8	1099.8	1099.8
7.5°	1042.1	1039.7	1040.3	1036.1
10°	986.2	982.6	981.4	982.0
12.5°	939.9	939.9	930.3	930.3
15°	905.7	894.2	893.0	896.6
17.5°	867.8	861.2	861.8	860.6
20°	838.9	835.3	834.7	830.5
22.5°	812.5	811.9	812.5	807.7
25°	791.5	794.5	792.1	792.1
27.5°	777.0	777.0	775.2	775.2
30°	760.2	759.6	760.8	760.8
32.5°	743.4	744.6	744.6	745.2
35°	726.0	726.6	728.4	727.2
37.5°	703.1	706.1	705.5	706.7
40°	676.7	678.5	677.9	677.9
42.5°	649.6	650.8	649.0	647.8
45°	619.6	618.4	620.2	617.8
47.5°	586.5	587.1	587.7	590.1
50°	553.5	557.1	557.1	556.5
52.5°	521.0	522.2	525.2	525.2
55°	487.4	488.6	489.8	490.4
57.5°	453.1	452.5	454.9	455.5
60°	416.5	416.5	421.3	423.1
62.5°	377.4	379.8	384.6	381.0
65°	339.5	344.4	343.8	346.2
67.5°	299.9	302.9	307.7	307.7
70°	259.6	262.6	265.0	266.8
72.5°	220.6	221.8	228.4	224.8
75°	179.1	183.3	186.9	185.1
77.5°	139.4	144.8	146.0	144.2
80°	104.6	104.0	107.6	107.0
82.5°	69.7	69.1	70.3	70.9
85°	37.3	39.1	36.7	36.1
87.5°	10.8	10.8	10.2	9.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242464
 CATALOG NUMBER: S123DRP-S1000D830-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	19.80	21.36	20.17	21.67	21.98	20.35	21.91	20.72	22.22	22.54
	3H	21.35	22.75	21.73	23.07	23.44	21.69	23.09	22.06	23.41	23.77
	4H	21.91	23.23	22.31	23.58	23.95	22.15	23.46	22.55	23.81	24.19
	6H	22.31	23.53	22.72	23.89	24.29	22.44	23.66	22.85	24.02	24.41
	8H	22.43	23.58	22.85	23.97	24.37	22.51	23.67	22.94	24.06	24.46
	12H	22.49	23.60	22.92	23.98	24.41	22.55	23.66	22.98	24.04	24.47
4H	2H	20.95	22.27	21.35	22.62	22.99	21.12	22.43	21.52	22.78	23.16
	3H	22.55	23.64	22.96	24.04	24.44	22.92	24.02	23.33	24.42	24.82
	4H	23.17	24.15	23.60	24.57	25.01	23.49	24.47	23.92	24.89	25.33
	6H	23.64	24.50	24.10	24.94	25.40	23.85	24.71	24.31	25.15	25.61
	8H	23.78	24.58	24.24	25.03	25.49	23.94	24.75	24.41	25.19	25.66
	12H	23.87	24.59	24.35	25.07	25.54	24.00	24.71	24.48	25.19	25.66
8H	4H	23.65	24.46	24.12	24.90	25.37	23.79	24.60	24.26	25.04	25.51
	6H	24.20	24.87	24.70	25.36	25.83	24.30	24.97	24.80	25.46	25.93
	8H	24.39	24.98	24.90	25.49	25.98	24.45	25.04	24.96	25.55	26.04
	12H	24.53	25.06	25.04	25.55	26.11	24.55	25.07	25.05	25.56	26.13
12H	4H	23.71	24.42	24.19	24.90	25.37	23.81	24.52	24.29	25.00	25.47
	6H	24.28	24.87	24.79	25.38	25.87	24.34	24.93	24.85	25.44	25.93
	8H	24.52	25.04	25.02	25.53	26.10	24.54	25.07	25.05	25.56	26.12