

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: P242489

Luminaire Tested: S123DRP-S1000D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242489
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-S1000D940-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

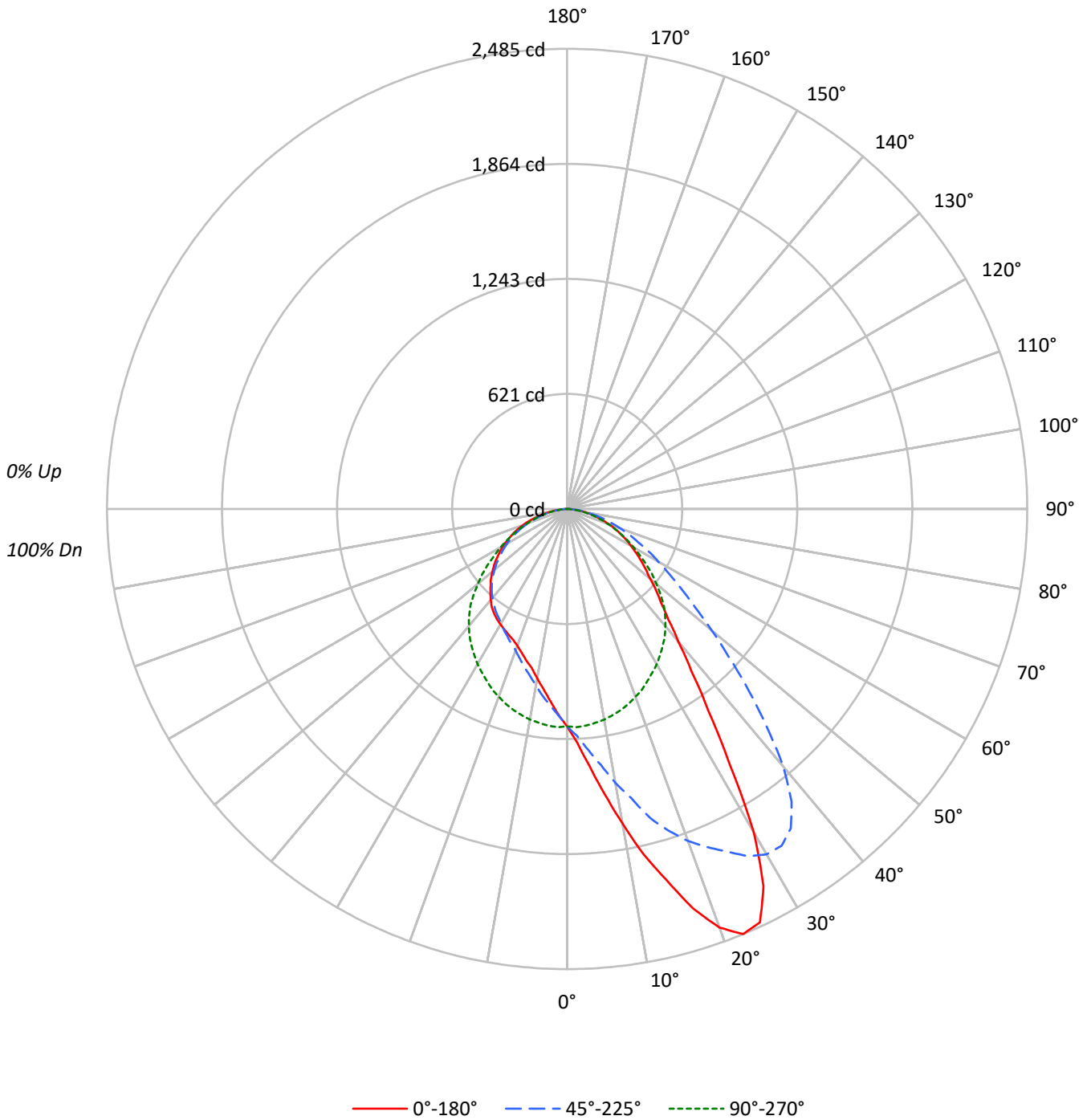
Lumens per Lamp: N/A
Luminaire Lumens: 3541.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (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	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°	14224	14224	14224	14224	14224
5°	16963	15897	14286	12937	12660
10°	21232	18481	14212	11917	11434
15°	26041	21676	14099	11116	10645
20°	31022	24613	13919	10487	10135
25°	32941	27298	13702	10182	10023
30°	28234	30144	13544	9986	10075
35°	19636	31145	13318	9953	10179
40°	14790	28752	13054	9932	10147
45°	12281	23781	12659	9864	10019
50°	10999	19191	11857	9670	9928
55°	10285	15919	10993	9396	9803
60°	9648	13770	10090	9125	9704
65°	9066	12115	9198	8659	9393
70°	8502	10820	8180	7960	8945
75°	7615	9371	7161	7109	8200
80°	6666	7699	5870	5752	7064
85°	5215	6008	4270	4186	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 28108 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.3
10°-20°	370.7	10.5
20°-30°	623.7	17.6
30°-40°	704.9	19.9
40°-50°	631.4	17.8
50°-60°	509.6	14.4
60°-70°	355.1	10.0
70°-80°	186.4	5.3
80°-90°	44.7	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°	1109.8	31.3
0°-40°	1814.7	51.2
0°-60°	2955.8	83.5
0°-90°	3541.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1174	1174	1174	1174	1174	
5°	1394	1306	1174	1063	1040	143
15°	2075	1727	1124	886	848	599
25°	2463	2041	1024	761	749	1089
35°	1327	2105	900	673	688	856
45°	716	1387	738	575	584	565
55°	487	753	520	445	464	437
65°	316	422	321	302	328	315
75°	163	200	153	152	175	174
85°	38	43	31	30	34	45
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°	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5
2.5°	1263.3	1262.2	1259.3	1261.6	1257.1	1250.8	1250.2	1244.6	1228.1	1226.9	1222.4
5°	1394.1	1389.5	1389.0	1388.4	1380.4	1369.6	1349.2	1347.5	1320.2	1306.5	1290.0
7.5°	1552.1	1550.4	1545.9	1540.8	1514.1	1501.0	1481.6	1456.6	1424.8	1394.1	1374.8
10°	1725.0	1743.7	1720.4	1704.5	1689.7	1661.9	1629.5	1589.1	1548.7	1501.5	1465.7
12.5°	1910.3	1917.2	1917.2	1902.4	1877.4	1831.3	1767.6	1722.1	1685.8	1599.3	1568.6
15°	2075.2	2109.9	2087.7	2036.6	2037.7	1997.3	1922.3	1839.8	1796.1	1727.3	1633.5
17.5°	2261.7	2268.0	2261.1	2213.4	2190.1	2131.5	2063.8	1987.1	1904.7	1821.1	1723.9
20°	2405.0	2401.6	2381.7	2359.5	2310.6	2267.4	2191.8	2103.6	1989.9	1908.1	1799.5
22.5°	2484.6	2478.3	2471.5	2453.9	2415.2	2368.0	2302.1	2203.7	2096.8	1976.3	1846.7
25°	2463.0	2470.4	2471.5	2466.4	2452.2	2424.3	2370.9	2294.1	2186.1	2041.1	1910.3
27.5°	2295.8	2314.6	2338.5	2354.4	2380.0	2397.0	2380.0	2331.6	2242.9	2113.3	1952.4
30°	2017.2	1994.5	2050.8	2121.8	2170.2	2255.4	2303.2	2306.0	2261.1	2153.7	1997.9
32.5°	1630.6	1667.6	1684.6	1776.2	1896.1	1994.5	2101.4	2196.3	2218.5	2156.0	2024.6
35°	1327.0	1358.3	1403.8	1449.2	1563.0	1660.7	1827.9	1973.4	2089.4	2104.8	2021.2
37.5°	1103.0	1121.2	1149.0	1197.4	1275.3	1396.4	1528.8	1718.2	1877.9	1990.5	1979.1
40°	934.7	939.2	971.7	1006.3	1066.6	1162.1	1278.7	1441.3	1642.5	1817.1	1889.9
42.5°	808.5	819.9	828.9	861.9	906.8	972.8	1079.1	1206.5	1386.7	1594.2	1754.0
45°	716.4	727.7	736.3	758.4	792.6	840.9	916.5	1039.3	1179.7	1387.3	1578.9
47.5°	652.7	651.6	659.0	676.6	701.0	739.7	795.4	877.3	1012.0	1185.4	1386.1
50°	583.3	592.4	594.7	607.8	626.0	652.7	697.0	764.1	869.9	1017.7	1198.5
52.5°	534.4	535.6	543.0	551.5	566.8	586.2	623.1	672.0	749.4	869.9	1032.5
55°	486.7	486.7	492.9	500.3	509.4	528.2	553.8	592.4	655.5	753.3	890.9
57.5°	442.3	444.6	450.3	452.0	460.0	473.0	495.2	525.9	574.2	653.3	767.0
60°	398.0	403.1	402.5	407.1	413.9	423.6	441.8	465.6	507.7	568.0	660.1
62.5°	359.3	357.6	357.6	363.3	370.1	379.2	389.5	409.4	443.5	495.2	570.3
65°	316.1	315.0	319.0	322.4	324.6	331.5	340.6	358.8	382.6	422.4	483.3
67.5°	278.6	275.2	278.0	279.2	283.1	288.8	297.9	309.3	328.6	362.2	411.1
70°	239.9	237.1	236.5	237.7	241.1	245.0	251.3	262.1	279.7	305.3	338.9
72.5°	200.1	198.4	198.4	201.3	202.4	204.7	208.7	218.3	231.4	249.0	279.7
75°	162.6	162.6	162.6	163.2	164.9	167.2	170.6	175.7	186.5	200.1	221.2
77.5°	128.5	129.1	127.9	127.4	130.2	131.3	131.9	137.6	143.8	154.1	170.6
80°	95.5	92.7	93.8	95.5	96.7	97.2	98.9	100.1	105.2	110.3	121.1
82.5°	64.8	62.5	62.5	65.4	65.4	66.0	67.7	69.4	70.5	75.0	79.6
85°	37.5	37.5	38.1	38.1	38.7	38.1	39.8	40.4	40.4	43.2	46.6
87.5°	17.1	15.9	16.5	17.1	16.5	17.1	17.6	18.2	18.8	19.3	19.9
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°	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5
2.5°	1219.0	1214.4	1209.9	1201.9	1195.1	1185.4	1182.6	1179.2	1168.9	1159.8	1153.0
5°	1283.8	1270.1	1250.2	1232.1	1217.3	1197.4	1186.0	1174.1	1157.0	1141.7	1129.1
7.5°	1345.8	1321.9	1294.0	1263.9	1234.9	1207.0	1184.9	1165.0	1142.8	1121.2	1104.7
10°	1422.5	1383.9	1340.6	1294.0	1254.2	1215.6	1183.2	1154.7	1124.0	1097.3	1075.1
12.5°	1510.1	1448.1	1384.4	1325.3	1276.4	1219.0	1178.0	1139.9	1104.1	1070.6	1045.0
15°	1575.5	1502.7	1432.2	1354.3	1282.7	1215.6	1168.9	1123.5	1083.1	1050.1	1018.3
17.5°	1640.3	1560.7	1470.8	1377.0	1292.9	1215.6	1151.9	1103.0	1053.5	1013.7	983.0
20°	1693.7	1599.9	1494.7	1396.4	1300.8	1212.2	1140.5	1079.1	1024.5	981.9	946.1
22.5°	1739.8	1626.1	1516.3	1409.4	1300.3	1203.1	1119.5	1055.8	995.5	954.0	915.4
25°	1768.8	1637.4	1528.3	1404.9	1286.1	1187.1	1096.2	1024.5	965.4	916.5	877.3
27.5°	1796.1	1635.7	1512.3	1379.3	1269.0	1170.6	1072.9	996.1	934.1	881.3	840.9
30°	1823.3	1638.6	1484.5	1353.2	1241.7	1139.4	1045.0	967.7	901.7	847.7	810.2
32.5°	1840.4	1636.9	1458.9	1316.8	1198.5	1111.0	1014.9	934.1	865.9	813.0	777.2
35°	1845.0	1627.2	1428.8	1263.9	1151.3	1063.2	983.0	900.0	828.9	779.5	738.5
37.5°	1835.3	1609.6	1395.8	1216.1	1094.5	1006.9	937.0	865.9	797.7	742.5	706.7
40°	1804.0	1592.5	1356.0	1165.0	1035.3	951.8	894.3	825.0	757.9	706.1	673.2
42.5°	1744.3	1557.8	1312.2	1108.1	973.9	890.4	838.6	783.5	720.9	673.2	640.2
45°	1639.7	1504.4	1268.4	1051.3	913.7	827.2	780.6	738.5	681.1	633.9	605.5
47.5°	1506.1	1432.2	1205.3	991.6	850.6	767.0	718.1	683.4	638.5	600.4	572.5
50°	1365.7	1338.9	1141.1	930.2	787.4	706.1	659.5	628.8	598.7	560.6	535.6
52.5°	1203.6	1230.9	1066.0	866.5	723.2	643.6	600.4	577.6	550.9	521.4	500.3
55°	1053.5	1113.2	977.3	793.7	659.5	583.3	541.8	520.2	504.3	481.0	462.2
57.5°	908.0	984.2	885.2	720.4	597.0	530.5	489.5	465.1	454.8	441.8	426.4
60°	781.2	856.2	785.2	646.4	533.9	471.3	436.1	416.2	405.9	397.4	384.9
62.5°	668.0	744.2	687.4	571.4	471.9	415.0	385.5	366.1	358.8	355.3	345.1
65°	566.3	631.7	591.9	492.9	413.3	362.2	334.3	320.7	313.3	311.6	304.7
67.5°	478.2	528.8	498.1	423.6	358.8	312.1	287.7	275.7	269.5	268.9	263.2
70°	391.7	438.4	416.2	350.2	296.2	261.5	241.1	230.8	227.4	226.9	224.0
72.5°	324.6	353.6	337.2	284.8	246.2	215.5	201.8	191.0	187.1	188.2	186.5
75°	250.2	274.6	264.4	226.3	192.7	172.3	159.8	152.9	149.5	151.2	149.0
77.5°	191.0	208.1	197.9	168.9	147.3	131.9	122.2	117.7	114.3	114.3	113.1
80°	135.9	145.0	139.9	123.9	106.9	94.4	87.0	84.1	82.4	81.9	81.3
82.5°	87.0	94.4	88.1	78.5	68.2	62.0	58.6	54.6	53.4	54.0	53.4
85°	48.9	51.7	49.5	42.6	38.1	34.7	32.4	30.7	29.6	30.1	29.0
87.5°	21.0	21.6	19.9	17.6	16.5	14.8	14.8	13.6	12.5	12.5	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°	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5	1173.5
2.5°	1149.0	1145.1	1139.4	1130.9	1124.0	1113.2	1113.2	1114.9	1114.9	1114.4	1113.2
5°	1118.9	1110.4	1100.1	1088.2	1075.7	1063.2	1060.9	1056.4	1053.0	1050.7	1047.8
7.5°	1088.2	1074.0	1059.8	1043.3	1029.1	1017.1	1008.6	1001.2	996.7	991.6	987.6
10°	1056.9	1038.2	1020.6	1002.9	983.6	968.2	958.6	951.8	946.6	942.1	939.8
12.5°	1020.0	997.8	977.9	961.4	939.8	923.9	914.8	912.5	906.3	895.5	889.8
15°	984.2	964.3	941.0	915.4	905.1	885.8	875.0	869.9	866.5	859.1	856.8
17.5°	954.6	927.9	901.2	882.4	863.6	848.3	842.0	835.2	830.7	823.8	822.1
20°	917.6	894.3	870.5	850.0	830.1	813.0	807.9	803.4	798.8	796.0	793.7
22.5°	880.1	856.8	838.0	819.3	797.7	788.0	782.3	777.2	774.4	772.7	770.4
25°	845.4	825.0	802.8	785.7	768.7	761.3	757.9	755.0	752.8	749.9	749.4
27.5°	814.7	792.0	773.2	756.7	744.2	738.0	734.0	732.3	732.3	733.4	734.0
30°	779.5	759.0	744.2	730.6	719.2	713.5	713.0	713.0	715.2	715.8	716.9
32.5°	747.1	731.2	716.4	703.3	695.3	691.9	694.8	694.8	696.5	698.2	700.5
35°	715.8	701.0	689.7	678.3	670.9	672.6	673.7	674.9	677.7	681.1	683.4
37.5°	686.2	672.6	660.7	651.6	647.0	650.4	653.3	655.5	659.0	661.8	664.1
40°	653.8	644.2	632.8	624.8	626.0	627.7	630.0	632.8	635.6	637.3	639.6
42.5°	623.7	613.5	605.5	599.3	601.0	603.2	604.4	605.5	608.9	612.3	613.5
45°	593.0	585.0	577.1	573.1	574.2	575.4	576.5	578.2	581.1	583.3	583.9
47.5°	558.3	552.6	547.5	543.0	545.2	544.7	546.4	549.8	550.9	552.1	555.5
50°	525.3	520.2	514.0	512.8	512.8	512.8	513.4	518.0	518.0	520.2	522.5
52.5°	489.0	486.1	482.7	480.4	479.3	479.3	482.1	483.8	485.0	488.4	490.7
55°	453.1	449.7	446.3	444.6	443.5	444.6	449.2	450.3	453.1	454.8	456.5
57.5°	415.6	413.3	410.5	409.4	409.4	409.9	413.3	416.2	416.7	422.4	424.7
60°	378.7	374.7	372.4	372.4	371.3	376.4	375.2	380.9	382.1	385.5	389.5
62.5°	340.6	334.9	334.3	334.3	336.6	337.2	339.4	341.1	344.5	349.1	351.9
65°	299.1	296.2	300.2	299.6	298.5	301.9	301.9	304.7	308.2	312.1	318.4
67.5°	260.4	258.1	259.3	258.7	260.4	262.7	264.4	266.7	270.6	275.2	279.2
70°	221.2	222.9	220.0	222.3	224.0	224.6	225.7	229.1	233.7	236.5	241.1
72.5°	183.1	182.5	183.6	184.2	185.9	187.1	188.2	192.2	197.3	199.6	203.0
75°	146.7	146.1	147.8	147.8	150.7	151.8	152.9	154.6	159.2	162.6	165.4
77.5°	113.7	114.3	113.7	116.0	114.8	115.4	118.8	120.5	121.1	128.5	129.6
80°	80.7	81.9	82.4	83.0	83.6	82.4	86.4	88.1	88.1	92.1	94.9
82.5°	52.3	52.9	54.6	55.1	55.1	56.9	56.3	57.4	59.1	60.3	64.2
85°	29.0	30.7	31.3	30.7	31.3	30.1	31.8	32.4	33.0	33.0	33.0
87.5°	11.4	11.9	11.4	11.9	11.4	11.9	11.9	10.8	10.8	12.5	10.2
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: P242489

CATALOG NUMBER: S123DRP-S1000D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1173.5	1173.5	1173.5	1173.5
2.5°	1109.2	1108.7	1112.7	1109.8
5°	1044.4	1046.1	1040.5	1040.5
7.5°	985.9	983.6	984.2	980.2
10°	933.0	929.6	928.4	929.0
12.5°	889.2	889.2	880.1	880.1
15°	856.8	846.0	844.9	848.3
17.5°	821.0	814.7	815.3	814.2
20°	793.7	790.3	789.7	785.7
22.5°	768.7	768.1	768.7	764.1
25°	748.8	751.6	749.4	749.4
27.5°	735.1	735.1	733.4	733.4
30°	719.2	718.7	719.8	719.8
32.5°	703.3	704.4	704.4	705.0
35°	686.8	687.4	689.1	687.9
37.5°	665.2	668.0	667.5	668.6
40°	640.2	641.9	641.3	641.3
42.5°	614.6	615.7	614.0	612.9
45°	586.2	585.0	586.7	584.5
47.5°	554.9	555.5	556.0	558.3
50°	523.6	527.0	527.0	526.5
52.5°	492.9	494.1	496.9	496.9
55°	461.1	462.2	463.4	463.9
57.5°	428.7	428.1	430.4	431.0
60°	394.0	394.0	398.6	400.3
62.5°	357.1	359.3	363.9	360.5
65°	321.2	325.8	325.2	327.5
67.5°	283.7	286.6	291.1	291.1
70°	245.6	248.5	250.7	252.4
72.5°	208.7	209.8	216.0	212.6
75°	169.4	173.4	176.8	175.1
77.5°	131.9	137.0	138.2	136.5
80°	98.9	98.4	101.8	101.2
82.5°	66.0	65.4	66.5	67.1
85°	35.3	37.0	34.7	34.1
87.5°	10.2	10.2	9.7	9.1
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242489

CATALOG NUMBER: S123DRP-S1000D940-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	19.61	21.16	19.97	21.48	21.79	20.16	21.72	20.53	22.03	22.35
	3H	21.16	22.55	21.53	22.88	23.24	21.49	22.89	21.87	23.22	23.58
	4H	21.72	23.04	22.12	23.38	23.76	21.95	23.27	22.35	23.62	23.99
	6H	22.12	23.34	22.53	23.70	24.09	22.25	23.46	22.66	23.83	24.22
	8H	22.23	23.39	22.66	23.78	24.18	22.32	23.48	22.75	23.87	24.27
	12H	22.30	23.41	22.73	23.79	24.22	22.36	23.47	22.79	23.85	24.28
4H	2H	20.76	22.07	21.16	22.42	22.80	20.92	22.24	21.32	22.59	22.96
	3H	22.36	23.45	22.77	23.85	24.25	22.73	23.82	23.14	24.22	24.62
	4H	22.98	23.96	23.41	24.38	24.82	23.30	24.28	23.73	24.70	25.14
	6H	23.45	24.31	23.91	24.75	25.21	23.66	24.52	24.12	24.96	25.42
	8H	23.59	24.39	24.05	24.83	25.30	23.75	24.55	24.21	25.00	25.46
	12H	23.68	24.40	24.16	24.88	25.35	23.80	24.52	24.28	25.00	25.47
8H	4H	23.46	24.26	23.92	24.71	25.17	23.60	24.40	24.06	24.85	25.31
	6H	24.01	24.67	24.51	25.16	25.64	24.11	24.77	24.61	25.26	25.74
	8H	24.20	24.79	24.71	25.30	25.79	24.26	24.85	24.77	25.36	25.85
	12H	24.34	24.87	24.85	25.36	25.92	24.35	24.88	24.86	25.37	25.93
12H	4H	23.51	24.23	23.99	24.71	25.18	23.61	24.33	24.09	24.81	25.28
	6H	24.09	24.68	24.60	25.19	25.68	24.14	24.74	24.66	25.25	25.74
	8H	24.32	24.85	24.83	25.34	25.90	24.35	24.87	24.86	25.37	25.93