

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: P243319

Luminaire Tested: S123DRP-H1000D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-59)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-H1000D927-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

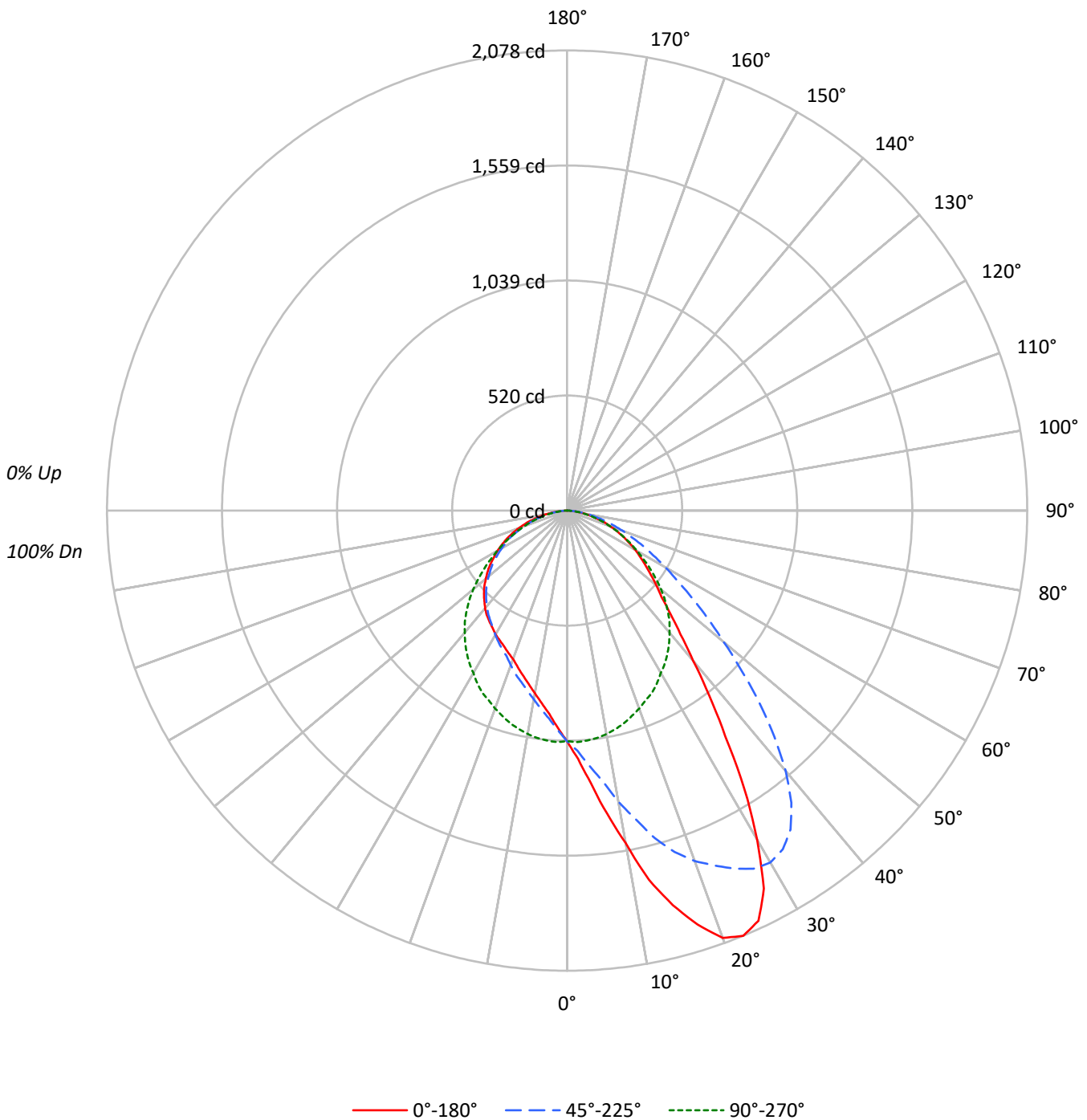
Lumens per Lamp: N/A
Luminaire Lumens: 3139.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12624	12624	12624	12624	12624
5°	15040	14066	12685	11472	11211
10°	18784	16429	12609	10654	10307
15°	23148	19222	12472	10048	9671
20°	26488	21721	12272	9591	9202
25°	27337	23861	12137	9255	9032
30°	24016	25685	11848	9071	9037
35°	18433	26018	11672	8955	9047
40°	14021	24284	11386	8927	9116
45°	11281	21059	11021	8878	9108
50°	9928	17420	10432	8723	9029
55°	9150	14573	9664	8586	8969
60°	8625	12439	8844	8301	8785
65°	8016	10807	8082	7973	8616
70°	7336	9413	7251	7336	8247
75°	6524	8041	6322	6566	7685
80°	5459	6624	5228	5626	6722
85°	3852	4909	3783	4242	5035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 23642 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.3
10°-20°	329.0	10.5
20°-30°	543.4	17.3
30°-40°	621.9	19.8
40°-50°	563.6	18.0
50°-60°	455.4	14.5
60°-70°	317.3	10.1
70°-80°	166.4	5.3
80°-90°	39.7	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°	974.8	31.1
0°-40°	1596.8	50.9
0°-60°	2615.7	83.3
0°-90°	3139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1236	1156	1042	943	921	127
15°	1845	1532	994	801	771	525
25°	2044	1784	908	692	675	913
35°	1246	1758	789	605	611	789
45°	658	1228	643	518	531	519
55°	433	690	457	406	424	389
65°	280	377	282	278	300	277
75°	139	172	135	140	164	149
85°	28	35	27	30	36	35
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°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1121.7	1124.1	1120.2	1122.6	1116.9	1113.6	1108.3	1105.9	1094.5	1086.4	1083.5
5°	1236.1	1236.1	1237.1	1231.4	1224.7	1212.8	1197.0	1187.0	1175.6	1156.0	1146.0
7.5°	1380.1	1373.0	1368.2	1357.7	1348.7	1329.1	1311.9	1291.4	1264.7	1232.3	1215.1
10°	1526.1	1533.7	1528.9	1518.0	1494.6	1462.6	1437.4	1407.8	1366.3	1334.8	1290.0
12.5°	1708.3	1698.2	1690.6	1673.9	1648.2	1614.3	1575.2	1531.3	1477.9	1425.9	1375.9
15°	1844.6	1846.1	1845.6	1823.7	1798.4	1752.6	1716.4	1643.4	1575.7	1531.8	1448.8
17.5°	1960.1	1966.3	1959.1	1926.2	1903.8	1876.6	1830.3	1749.3	1687.7	1616.7	1525.1
20°	2053.5	2054.5	2043.0	2018.7	1993.0	1962.4	1901.4	1839.4	1779.3	1683.9	1596.7
22.5°	2078.3	2080.7	2078.3	2067.8	2046.9	2014.4	1968.6	1911.4	1835.6	1734.0	1652.9
25°	2044.0	2042.6	2050.7	2044.5	2043.5	2033.0	2003.0	1956.7	1881.8	1784.1	1681.1
27.5°	1923.8	1913.8	1934.3	1961.0	1964.8	1981.5	1982.0	1960.5	1906.6	1823.2	1711.1
30°	1715.9	1725.4	1735.4	1791.2	1822.2	1865.6	1903.3	1917.1	1896.6	1835.1	1730.2
32.5°	1489.8	1520.4	1548.5	1587.1	1632.4	1705.9	1765.5	1817.9	1840.4	1813.2	1730.2
35°	1245.7	1261.9	1306.2	1355.3	1420.7	1477.9	1596.2	1672.5	1740.7	1758.3	1708.3
37.5°	1054.9	1069.7	1084.9	1123.1	1196.5	1291.9	1389.7	1489.8	1590.9	1663.4	1660.6
40°	886.1	889.4	902.8	935.7	996.7	1081.6	1184.1	1304.8	1435.9	1534.7	1576.2
42.5°	756.4	756.4	773.1	811.2	846.5	908.5	1007.7	1114.0	1257.6	1384.4	1473.1
45°	658.1	659.1	672.4	699.6	727.3	775.9	849.4	949.5	1097.3	1228.5	1352.0
47.5°	578.0	587.1	594.7	609.0	636.7	679.6	733.0	818.4	923.8	1066.8	1210.8
50°	526.5	528.4	534.1	542.7	564.2	592.3	638.6	703.4	796.9	923.8	1069.2
52.5°	475.9	475.9	481.7	492.2	504.6	527.5	560.8	614.7	684.8	799.8	930.4
55°	433.0	434.5	435.4	444.0	454.5	471.7	497.9	533.2	597.6	689.6	803.6
57.5°	391.1	396.3	394.9	401.5	409.2	421.6	440.2	470.7	519.8	589.9	692.5
60°	355.8	354.8	357.2	360.1	365.3	373.9	391.1	413.5	454.5	513.1	597.1
62.5°	315.7	314.8	317.6	321.0	325.7	332.9	345.3	362.4	394.9	438.7	511.7
65°	279.5	278.5	279.9	281.8	287.1	292.8	302.4	316.7	338.1	376.8	432.5
67.5°	243.2	243.2	244.2	246.1	249.4	253.7	261.3	269.9	291.4	317.1	361.0
70°	207.0	207.5	207.5	209.4	212.2	215.6	221.8	229.4	242.7	265.6	300.9
72.5°	175.5	175.5	174.5	175.5	177.4	178.8	182.7	189.8	199.8	216.5	243.2
75°	139.3	141.6	141.2	140.7	142.1	144.5	147.8	153.6	159.8	171.7	191.7
77.5°	106.8	108.3	108.3	108.7	110.2	112.1	113.0	118.7	124.5	131.6	146.4
80°	78.2	79.2	78.2	78.7	79.6	81.5	83.5	84.4	88.7	94.9	102.1
82.5°	52.5	51.0	52.9	52.5	53.4	53.9	54.8	55.3	58.2	62.0	66.8
85°	27.7	30.0	29.6	30.5	29.6	30.0	30.5	32.4	32.9	35.3	38.2
87.5°	10.5	11.4	11.4	11.4	11.4	11.4	12.4	12.9	13.8	14.3	15.3
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°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1085.4	1081.1	1074.9	1068.3	1061.1	1053.9	1050.6	1046.3	1037.7	1029.1	1022.5
5°	1137.9	1126.0	1109.7	1097.8	1080.7	1064.4	1051.6	1042.5	1028.7	1012.0	1001.0
7.5°	1196.5	1175.1	1149.3	1123.1	1097.3	1073.0	1053.0	1035.8	1014.4	993.9	977.2
10°	1265.7	1224.2	1188.4	1150.3	1112.1	1077.8	1049.2	1024.4	996.7	971.9	951.4
12.5°	1326.7	1278.6	1229.0	1175.1	1123.6	1079.2	1042.5	1010.1	976.7	948.1	927.1
15°	1394.0	1326.3	1257.6	1196.5	1134.1	1079.7	1031.5	993.9	955.7	923.3	899.0
17.5°	1471.2	1380.6	1294.3	1206.6	1151.2	1081.1	1022.0	972.4	933.3	900.9	869.4
20°	1517.0	1426.9	1321.0	1230.9	1139.3	1067.3	1001.5	951.4	905.6	868.4	842.7
22.5°	1541.8	1446.9	1336.3	1243.8	1136.9	1056.3	986.2	927.1	878.0	840.8	811.7
25°	1576.6	1446.9	1344.4	1233.3	1140.7	1043.5	964.3	907.5	856.0	813.1	782.6
27.5°	1592.4	1459.8	1345.3	1213.2	1117.9	1019.1	939.0	878.9	821.7	779.7	753.5
30°	1605.2	1462.2	1326.3	1197.5	1091.1	992.0	913.7	846.5	793.1	753.0	725.4
32.5°	1606.2	1456.0	1300.5	1167.9	1055.4	960.0	883.7	820.3	764.5	722.0	694.8
35°	1597.6	1440.7	1270.9	1122.6	1013.9	927.1	850.8	788.8	732.0	691.5	663.8
37.5°	1575.7	1423.5	1243.3	1080.2	964.8	880.4	815.5	756.4	700.1	659.6	636.7
40°	1528.9	1395.9	1207.0	1034.9	915.2	830.8	774.0	719.6	669.6	627.6	604.7
42.5°	1466.9	1354.4	1163.2	986.7	859.8	778.3	728.2	684.4	633.3	597.1	573.7
45°	1379.2	1298.1	1119.3	936.2	805.0	724.9	679.1	642.9	599.0	562.7	542.2
47.5°	1280.0	1230.4	1062.5	879.4	747.3	672.0	628.6	599.5	562.3	531.3	510.8
50°	1168.4	1149.8	1000.1	822.2	693.4	616.2	576.1	553.2	521.7	496.9	479.3
52.5°	1047.3	1058.7	934.2	764.0	641.4	563.2	525.1	504.1	484.1	463.1	446.4
55°	924.2	951.4	854.6	700.6	581.8	513.6	476.4	457.3	442.6	424.9	413.0
57.5°	808.8	851.3	772.1	632.8	527.0	461.6	426.3	409.7	398.7	389.1	378.2
60°	696.7	745.9	687.2	569.4	472.1	412.5	381.0	364.8	359.6	352.4	341.9
62.5°	597.6	647.6	603.8	504.1	416.8	365.8	337.2	323.8	316.2	313.8	307.6
65°	504.6	551.3	517.9	435.9	364.4	319.0	293.8	281.8	277.6	277.1	272.3
67.5°	424.0	469.3	438.7	369.6	309.0	272.3	253.2	243.7	239.4	239.9	236.5
70°	349.6	381.5	363.4	309.0	262.3	229.9	215.1	204.6	201.3	201.3	200.3
72.5°	280.4	305.7	291.9	250.4	213.7	188.9	176.0	169.8	166.9	166.4	166.9
75°	219.4	241.3	228.9	196.5	168.8	150.2	139.3	135.0	133.5	132.6	133.1
77.5°	164.1	177.9	170.3	149.3	126.4	113.5	108.3	104.0	102.5	103.0	104.0
80°	115.9	123.5	119.2	105.9	90.6	82.0	78.2	74.9	73.4	74.9	74.9
82.5°	73.4	79.2	75.4	66.8	59.1	53.4	49.6	48.6	48.2	47.2	48.6
85°	40.1	42.9	41.0	38.2	32.9	30.5	27.7	27.2	27.2	27.2	27.2
87.5°	15.7	17.6	15.3	15.3	14.3	11.9	11.9	11.4	11.0	11.4	11.4
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°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1019.6	1013.4	1009.6	1004.3	998.2	990.0	986.7	990.0	988.1	984.8	986.2
5°	991.5	983.4	972.9	964.3	954.8	942.8	939.0	937.1	934.2	932.8	930.4
7.5°	963.8	951.9	939.0	927.1	913.3	902.8	898.0	894.7	893.7	886.6	883.7
10°	935.2	920.4	907.5	891.3	879.4	865.6	859.8	856.0	851.7	847.0	843.6
12.5°	905.2	890.4	874.2	858.9	847.0	831.7	824.1	819.8	816.5	813.1	809.3
15°	878.9	864.1	841.7	830.3	816.0	800.7	795.9	786.4	787.4	781.6	777.8
17.5°	851.3	829.3	813.6	796.4	785.9	775.0	765.9	755.9	754.5	750.2	748.7
20°	820.3	797.4	786.4	768.8	754.5	743.5	735.4	734.4	731.6	725.4	723.0
22.5°	789.7	771.1	755.9	739.7	726.8	712.5	708.7	710.1	704.9	703.4	698.2
25°	762.1	745.9	726.8	711.5	701.0	692.0	686.7	684.8	682.9	681.5	679.1
27.5°	732.5	715.3	699.1	686.7	676.7	670.5	667.2	662.9	662.4	662.4	661.5
30°	702.9	687.7	676.7	661.0	651.9	648.1	645.2	643.8	645.2	645.2	645.7
32.5°	675.8	661.0	648.1	637.1	628.1	625.2	624.7	624.7	626.6	626.6	628.1
35°	647.6	632.8	620.9	613.3	605.7	605.2	605.7	606.6	609.0	609.5	611.4
37.5°	617.1	605.7	596.6	587.1	585.2	586.1	587.1	588.0	589.0	592.8	592.8
40°	589.0	580.4	571.3	565.1	561.8	564.2	565.6	566.1	568.9	571.3	573.2
42.5°	561.3	553.2	546.0	540.8	539.4	541.3	542.7	544.1	547.0	548.9	552.2
45°	530.3	525.1	518.9	514.6	515.1	517.9	517.9	522.7	524.6	525.5	527.9
47.5°	501.7	496.0	491.7	489.8	489.3	491.7	493.1	496.9	497.9	501.2	503.1
50°	471.2	466.9	463.5	461.2	461.6	462.6	465.9	469.7	470.7	474.5	477.9
52.5°	439.2	435.4	432.5	433.5	434.9	434.9	438.3	440.7	443.0	445.9	449.2
55°	407.7	402.5	403.0	401.5	403.0	406.3	407.7	411.6	413.5	414.9	419.7
57.5°	373.4	372.5	371.0	369.6	372.5	373.9	376.3	378.7	382.0	383.9	387.2
60°	338.1	336.7	336.7	338.6	339.6	342.4	346.2	347.7	348.6	352.4	356.7
62.5°	305.7	304.3	303.8	306.6	306.6	309.5	310.9	313.3	317.1	318.6	324.3
65°	270.9	269.9	269.9	272.3	272.8	278.0	278.0	278.0	280.4	285.7	288.5
67.5°	234.6	235.1	236.5	238.0	239.9	241.3	241.8	244.6	248.5	251.8	257.5
70°	198.4	200.8	203.6	203.2	204.6	207.0	207.5	210.3	213.7	217.9	224.6
72.5°	166.0	167.4	170.3	170.3	172.2	173.6	176.0	177.9	182.2	186.0	188.9
75°	133.5	134.0	136.4	137.8	139.3	140.2	142.6	145.9	148.3	151.7	155.9
77.5°	104.9	104.0	105.9	106.3	107.3	109.2	111.1	114.5	116.4	120.2	121.6
80°	74.4	76.3	76.8	77.3	78.2	80.6	82.0	83.5	85.4	88.7	90.1
82.5°	49.1	50.1	51.5	52.0	52.9	53.4	53.9	56.3	57.7	58.7	63.4
85°	28.6	30.0	29.1	29.1	30.0	30.5	32.4	32.4	34.3	33.4	35.8
87.5°	12.4	11.9	11.9	12.4	11.9	11.4	12.9	12.9	12.4	12.9	12.9
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: P243319

CATALOG NUMBER: S123DRP-H1000D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1041.5	1041.5	1041.5	1041.5
2.5°	983.8	983.8	980.0	981.5
5°	925.7	927.6	922.8	921.4
7.5°	882.7	880.8	877.5	877.5
10°	840.8	838.9	837.4	837.4
12.5°	804.5	802.6	799.8	802.1
15°	772.1	772.6	770.7	770.7
17.5°	747.3	743.0	741.6	741.1
20°	717.7	718.7	716.8	713.4
22.5°	699.1	696.7	694.8	694.4
25°	680.1	677.7	677.2	675.3
27.5°	661.0	661.5	660.0	660.0
30°	645.2	646.7	645.2	645.7
32.5°	629.5	629.5	629.5	627.6
35°	612.3	612.8	612.3	611.4
37.5°	594.7	594.7	595.2	596.1
40°	575.1	575.1	576.1	576.1
42.5°	551.8	554.2	555.6	553.2
45°	530.8	531.3	531.7	531.3
47.5°	507.4	506.0	506.5	507.4
50°	478.3	481.7	481.7	478.8
52.5°	450.2	451.1	453.1	453.1
55°	422.5	423.0	423.5	424.4
57.5°	391.1	391.5	391.5	391.1
60°	359.6	362.4	362.0	362.4
62.5°	325.7	330.0	331.4	331.0
65°	293.8	294.7	297.1	300.4
67.5°	259.9	262.3	266.1	265.2
70°	226.5	229.9	230.8	232.7
72.5°	193.1	197.4	198.4	199.3
75°	160.7	162.6	164.5	164.1
77.5°	125.4	128.3	131.6	129.7
80°	93.9	94.4	97.3	96.3
82.5°	62.0	65.8	65.8	63.9
85°	36.2	36.2	36.2	36.2
87.5°	12.4	11.9	12.9	12.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243319
 CATALOG NUMBER: S123DRP-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	19.21	20.77	19.57	21.08	21.40	19.74	21.30	20.10	21.61	21.93
	3H	20.73	22.13	21.11	22.46	22.82	21.08	22.48	21.46	22.81	23.17
	4H	21.27	22.59	21.67	22.94	23.32	21.53	22.85	21.93	23.20	23.58
	6H	21.64	22.85	22.05	23.22	23.61	21.84	23.05	22.25	23.42	23.81
	8H	21.73	22.90	22.16	23.28	23.68	21.91	23.07	22.34	23.46	23.86
	12H	21.79	22.90	22.22	23.28	23.71	21.95	23.06	22.38	23.44	23.87
4H	2H	20.37	21.69	20.77	22.04	22.42	20.53	21.85	20.93	22.20	22.57
	3H	21.93	23.03	22.34	23.43	23.83	22.32	23.42	22.73	23.82	24.22
	4H	22.53	23.51	22.96	23.93	24.37	22.88	23.87	23.32	24.29	24.73
	6H	22.95	23.81	23.41	24.26	24.71	23.25	24.11	23.71	24.55	25.01
	8H	23.07	23.88	23.53	24.32	24.79	23.34	24.15	23.80	24.59	25.06
	12H	23.15	23.87	23.63	24.34	24.81	23.40	24.12	23.88	24.59	25.06
8H	4H	22.99	23.79	23.45	24.24	24.70	23.19	23.99	23.65	24.44	24.90
	6H	23.49	24.15	23.98	24.65	25.12	23.70	24.36	24.19	24.85	25.33
	8H	23.65	24.25	24.16	24.76	25.24	23.84	24.44	24.36	24.95	25.44
	12H	23.77	24.30	24.28	24.79	25.35	23.94	24.47	24.45	24.96	25.53
12H	4H	23.04	23.76	23.52	24.23	24.70	23.20	23.92	23.68	24.40	24.87
	6H	23.56	24.16	24.07	24.66	25.15	23.73	24.33	24.24	24.84	25.33
	8H	23.77	24.29	24.27	24.79	25.35	23.94	24.46	24.44	24.95	25.52