

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: P242479

Luminaire Tested: S123DRP-S1000D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242479
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-S1000D930-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

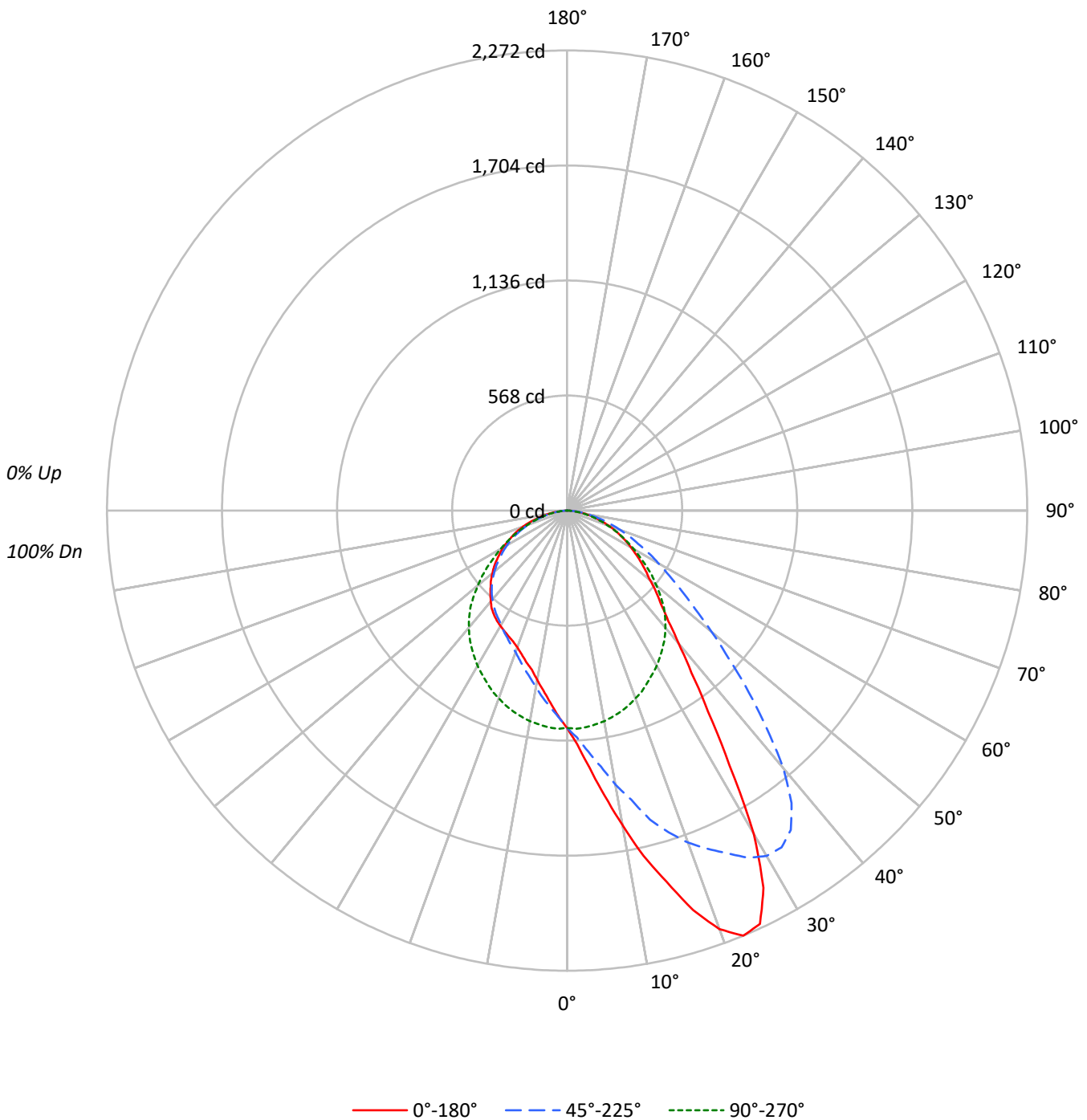
Lumens per Lamp: N/A
Luminaire Lumens: 3238.4 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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°	13005	13005	13005	13005	13005
5°	15509	14535	13062	11828	11575
10°	19413	16898	12995	10896	10455
15°	23810	19818	12890	10163	9733
20°	28364	22504	12726	9589	9267
25°	30118	24959	12528	9310	9163
30°	25815	27560	12384	9131	9211
35°	17954	28476	12177	9100	9307
40°	13522	26289	11935	9081	9279
45°	11228	21743	11576	9018	9161
50°	10057	17547	10841	8842	9078
55°	9404	14556	10051	8590	8964
60°	8822	12589	9224	8342	8873
65°	8289	11077	8409	7916	8587
70°	7776	9895	7481	7276	8180
75°	6964	8570	6547	6500	7498
80°	6094	7036	5368	5263	6457
85°	4770	5493	3908	3838	4339

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 25699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	3.3
10°-20°	338.9	10.5
20°-30°	570.3	17.6
30°-40°	644.5	19.9
40°-50°	577.3	17.8
50°-60°	466.0	14.4
60°-70°	324.7	10.0
70°-80°	170.4	5.3
80°-90°	40.8	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°	1014.7	31.3
0°-40°	1659.2	51.2
0°-60°	2702.5	83.5
0°-90°	3238.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3238.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1073	1073	1073	1073	1073	
5°	1275	1195	1074	972	951	131
15°	1897	1579	1027	810	776	548
25°	2252	1866	937	696	685	996
35°	1213	1924	823	615	629	783
45°	655	1268	675	526	534	517
55°	445	689	476	406	424	399
65°	289	386	293	276	299	288
75°	149	183	140	139	160	159
85°	34	40	28	28	31	42
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°	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1155.1	1154.0	1151.4	1153.5	1149.3	1143.6	1143.1	1137.9	1122.8	1121.8	1117.6
5°	1274.6	1270.5	1270.0	1269.4	1262.2	1252.3	1233.6	1232.0	1207.1	1194.6	1179.5
7.5°	1419.1	1417.6	1413.4	1408.7	1384.3	1372.4	1354.7	1331.8	1302.7	1274.6	1257.0
10°	1577.2	1594.3	1573.0	1558.5	1544.9	1519.5	1489.8	1452.9	1416.0	1372.9	1340.1
12.5°	1746.6	1752.9	1752.9	1739.4	1716.5	1674.4	1616.2	1574.6	1541.3	1462.3	1434.2
15°	1897.4	1929.1	1908.8	1862.0	1863.1	1826.2	1757.6	1682.2	1642.2	1579.3	1493.5
17.5°	2067.9	2073.6	2067.4	2023.7	2002.4	1948.9	1887.0	1816.8	1741.4	1665.0	1576.1
20°	2198.9	2195.8	2177.6	2157.3	2112.6	2073.1	2004.0	1923.4	1819.4	1744.6	1645.3
22.5°	2271.7	2266.0	2259.7	2243.6	2208.2	2165.1	2104.8	2014.9	1917.1	1806.9	1688.4
25°	2251.9	2258.7	2259.7	2255.0	2242.0	2216.6	2167.7	2097.5	1998.8	1866.2	1746.6
27.5°	2099.1	2116.2	2138.1	2152.6	2176.0	2191.6	2176.0	2131.8	2050.7	1932.2	1785.1
30°	1844.4	1823.6	1875.0	1940.0	1984.2	2062.2	2105.8	2108.4	2067.4	1969.1	1826.7
32.5°	1490.9	1524.7	1540.3	1624.0	1733.6	1823.6	1921.3	2008.1	2028.4	1971.2	1851.1
35°	1213.3	1241.9	1283.5	1325.1	1429.0	1518.4	1671.3	1804.3	1910.4	1924.4	1848.0
37.5°	1008.5	1025.1	1050.6	1094.8	1166.0	1276.7	1397.8	1570.9	1717.0	1819.9	1809.5
40°	854.6	858.8	888.4	920.1	975.2	1062.5	1169.1	1317.8	1501.8	1661.4	1727.9
42.5°	739.2	749.6	757.9	788.1	829.1	889.4	986.6	1103.1	1267.9	1457.6	1603.7
45°	655.0	665.4	673.2	693.5	724.6	768.8	838.0	950.3	1078.7	1268.4	1443.6
47.5°	596.8	595.7	602.5	618.6	641.0	676.3	727.2	802.1	925.3	1083.9	1267.4
50°	533.3	541.7	543.7	555.7	572.3	596.8	637.3	698.7	795.3	930.5	1095.8
52.5°	488.6	489.7	496.4	504.2	518.3	535.9	569.7	614.4	685.1	795.3	944.0
55°	445.0	445.0	450.7	457.5	465.8	482.9	506.3	541.7	599.4	688.8	814.6
57.5°	404.4	406.5	411.7	413.3	420.5	432.5	452.8	480.8	525.0	597.3	701.3
60°	363.9	368.6	368.0	372.2	378.4	387.3	403.9	425.7	464.2	519.3	603.5
62.5°	328.5	327.0	327.0	332.2	338.4	346.7	356.1	374.3	405.5	452.8	521.4
65°	289.0	288.0	291.6	294.7	296.8	303.1	311.4	328.0	349.8	386.2	441.9
67.5°	254.7	251.6	254.2	255.2	258.9	264.1	272.4	282.8	300.5	331.1	375.8
70°	219.4	216.8	216.3	217.3	220.4	224.0	229.8	239.6	255.8	279.2	309.8
72.5°	183.0	181.4	181.4	184.0	185.1	187.1	190.8	199.6	211.6	227.7	255.8
75°	148.7	148.7	148.7	149.2	150.8	152.8	155.9	160.6	170.5	183.0	202.2
77.5°	117.5	118.0	117.0	116.4	119.0	120.1	120.6	125.8	131.5	140.9	155.9
80°	87.3	84.7	85.8	87.3	88.4	88.9	90.5	91.5	96.2	100.8	110.7
82.5°	59.3	57.2	57.2	59.8	59.8	60.3	61.9	63.4	64.5	68.6	72.8
85°	34.3	34.3	34.8	34.8	35.3	34.8	36.4	36.9	36.9	39.5	42.6
87.5°	15.6	14.6	15.1	15.6	15.1	15.6	16.1	16.6	17.2	17.7	18.2
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°	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1114.5	1110.4	1106.2	1098.9	1092.7	1083.9	1081.3	1078.1	1068.8	1060.5	1054.2
5°	1173.8	1161.3	1143.1	1126.5	1113.0	1094.8	1084.4	1073.5	1057.9	1043.8	1032.4
7.5°	1230.4	1208.6	1183.1	1155.6	1129.1	1103.6	1083.3	1065.1	1044.9	1025.1	1010.0
10°	1300.6	1265.3	1225.8	1183.1	1146.8	1111.4	1081.8	1055.8	1027.7	1003.3	983.0
12.5°	1380.7	1324.0	1265.8	1211.7	1167.0	1114.5	1077.1	1042.3	1009.5	978.8	955.5
15°	1440.5	1373.9	1309.5	1238.2	1172.7	1111.4	1068.8	1027.2	990.3	960.1	931.0
17.5°	1499.7	1426.9	1344.8	1259.0	1182.1	1111.4	1053.2	1008.5	963.2	926.9	898.8
20°	1548.6	1462.8	1366.6	1276.7	1189.4	1108.3	1042.8	986.6	936.7	897.8	865.0
22.5°	1590.7	1486.7	1386.4	1288.7	1188.9	1100.0	1023.6	965.3	910.2	872.3	836.9
25°	1617.2	1497.1	1397.3	1284.5	1175.9	1085.4	1002.2	936.7	882.7	838.0	802.1
27.5°	1642.2	1495.6	1382.8	1261.1	1160.3	1070.3	980.9	910.7	854.1	805.7	768.8
30°	1667.1	1498.2	1357.3	1237.2	1135.3	1041.7	955.5	884.8	824.5	775.1	740.8
32.5°	1682.7	1496.6	1333.9	1203.9	1095.8	1015.8	927.9	854.1	791.7	743.4	710.6
35°	1686.9	1487.8	1306.3	1155.6	1052.7	972.1	898.8	822.9	757.9	712.7	675.3
37.5°	1678.0	1471.6	1276.2	1111.9	1000.7	920.6	856.7	791.7	729.3	678.9	646.2
40°	1649.4	1456.1	1239.8	1065.1	946.6	870.2	817.7	754.3	692.9	645.6	615.5
42.5°	1594.8	1424.3	1199.8	1013.2	890.5	814.1	766.8	716.3	659.1	615.5	585.3
45°	1499.2	1375.5	1159.7	961.2	835.4	756.4	713.7	675.3	622.8	579.6	553.6
47.5°	1377.0	1309.5	1102.0	906.6	777.7	701.3	656.5	624.8	583.8	548.9	523.5
50°	1248.6	1224.2	1043.3	850.4	720.0	645.6	603.0	574.9	547.4	512.6	489.7
52.5°	1100.5	1125.4	974.7	792.2	661.2	588.5	548.9	528.1	503.7	476.7	457.5
55°	963.2	1017.8	893.6	725.7	603.0	533.3	495.4	475.6	461.1	439.8	422.6
57.5°	830.2	899.8	809.4	658.6	545.8	485.0	447.6	425.2	415.9	403.9	389.9
60°	714.2	782.9	717.9	591.0	488.1	430.9	398.7	380.5	371.2	363.4	351.9
62.5°	610.8	680.5	628.5	522.4	431.5	379.5	352.4	334.8	328.0	324.9	315.5
65°	517.8	577.5	541.1	450.7	377.9	331.1	305.7	293.2	286.4	284.9	278.6
67.5°	437.2	483.4	455.4	387.3	328.0	285.4	263.0	252.1	246.4	245.9	240.7
70°	358.2	400.8	380.5	320.2	270.8	239.1	220.4	211.1	207.9	207.4	204.8
72.5°	296.8	323.3	308.3	260.4	225.1	197.0	184.5	174.7	171.0	172.1	170.5
75°	228.7	251.1	241.7	206.9	176.2	157.5	146.1	139.8	136.7	138.3	136.2
77.5°	174.7	190.3	180.9	154.4	134.6	120.6	111.8	107.6	104.5	104.5	103.4
80°	124.2	132.6	127.9	113.3	97.7	86.3	79.5	76.9	75.4	74.9	74.3
82.5°	79.5	86.3	80.6	71.7	62.4	56.7	53.5	49.9	48.9	49.4	48.9
85°	44.7	47.3	45.2	39.0	34.8	31.7	29.6	28.1	27.0	27.6	26.5
87.5°	19.2	19.8	18.2	16.1	15.1	13.5	13.5	12.5	11.4	11.4	10.9
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°	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1050.6	1046.9	1041.7	1033.9	1027.7	1017.8	1017.8	1019.4	1019.4	1018.9	1017.8
5°	1023.0	1015.2	1005.9	995.0	983.5	972.1	970.0	965.8	962.7	960.7	958.1
7.5°	995.0	982.0	969.0	953.9	940.9	930.0	922.2	915.4	911.3	906.6	902.9
10°	966.4	949.2	933.1	917.0	899.3	885.3	876.4	870.2	865.5	861.4	859.3
12.5°	932.6	912.3	894.1	879.0	859.3	844.7	836.4	834.3	828.6	818.7	813.5
15°	899.8	881.6	860.3	836.9	827.6	809.9	800.0	795.3	792.2	785.5	783.4
17.5°	872.8	848.4	823.9	806.8	789.6	775.6	769.9	763.6	759.5	753.2	751.7
20°	839.0	817.7	795.9	777.1	759.0	743.4	738.7	734.5	730.4	727.8	725.7
22.5°	804.7	783.4	766.2	749.1	729.3	720.5	715.3	710.6	708.0	706.5	704.4
25°	773.0	754.3	734.0	718.4	702.8	696.1	692.9	690.3	688.3	685.7	685.1
27.5°	744.9	724.1	707.0	691.9	680.5	674.7	671.1	669.5	669.5	670.6	671.1
30°	712.7	694.0	680.5	668.0	657.6	652.4	651.9	651.9	653.9	654.5	655.5
32.5°	683.1	668.5	655.0	643.0	635.8	632.6	635.2	635.2	636.8	638.4	640.4
35°	654.5	641.0	630.6	620.2	613.4	615.0	616.0	617.0	619.6	622.8	624.8
37.5°	627.4	615.0	604.0	595.7	591.6	594.7	597.3	599.4	602.5	605.1	607.2
40°	597.8	589.0	578.6	571.3	572.3	573.9	576.0	578.6	581.2	582.7	584.8
42.5°	570.3	560.9	553.6	547.9	549.5	551.5	552.6	553.6	556.7	559.9	560.9
45°	542.2	534.9	527.6	524.0	525.0	526.1	527.1	528.7	531.3	533.3	533.9
47.5°	510.5	505.3	500.6	496.4	498.5	498.0	499.6	502.7	503.7	504.8	507.9
50°	480.3	475.6	469.9	468.9	468.9	468.9	469.4	473.6	473.6	475.6	477.7
52.5°	447.1	444.5	441.3	439.3	438.2	438.2	440.8	442.4	443.4	446.5	448.6
55°	414.3	411.2	408.1	406.5	405.5	406.5	410.7	411.7	414.3	415.9	417.4
57.5°	380.0	377.9	375.3	374.3	374.3	374.8	377.9	380.5	381.0	386.2	388.3
60°	346.2	342.6	340.5	340.5	339.5	344.1	343.1	348.3	349.3	352.4	356.1
62.5°	311.4	306.2	305.7	305.7	307.7	308.3	310.3	311.9	315.0	319.2	321.8
65°	273.4	270.8	274.5	274.0	272.9	276.0	276.0	278.6	281.7	285.4	291.1
67.5°	238.1	236.0	237.0	236.5	238.1	240.2	241.7	243.8	247.4	251.6	255.2
70°	202.2	203.8	201.2	203.3	204.8	205.3	206.4	209.5	213.7	216.3	220.4
72.5°	167.4	166.9	167.9	168.4	170.0	171.0	172.1	175.7	180.4	182.5	185.6
75°	134.1	133.6	135.2	135.2	137.8	138.8	139.8	141.4	145.6	148.7	151.3
77.5°	104.0	104.5	104.0	106.0	105.0	105.5	108.6	110.2	110.7	117.5	118.5
80°	73.8	74.9	75.4	75.9	76.4	75.4	79.0	80.6	80.6	84.2	86.8
82.5°	47.8	48.3	49.9	50.4	50.4	52.0	51.5	52.5	54.1	55.1	58.7
85°	26.5	28.1	28.6	28.1	28.6	27.6	29.1	29.6	30.2	30.2	30.2
87.5°	10.4	10.9	10.4	10.9	10.4	10.9	10.9	9.9	9.9	11.4	9.4
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: P242479

CATALOG NUMBER: S123DRP-S1000D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1072.9	1072.9	1072.9	1072.9
2.5°	1014.2	1013.7	1017.3	1014.7
5°	954.9	956.5	951.3	951.3
7.5°	901.4	899.3	899.8	896.2
10°	853.0	849.9	848.9	849.4
12.5°	813.0	813.0	804.7	804.7
15°	783.4	773.5	772.5	775.6
17.5°	750.6	744.9	745.4	744.4
20°	725.7	722.6	722.0	718.4
22.5°	702.8	702.3	702.8	698.7
25°	684.6	687.2	685.1	685.1
27.5°	672.1	672.1	670.6	670.6
30°	657.6	657.1	658.1	658.1
32.5°	643.0	644.1	644.1	644.6
35°	628.0	628.5	630.0	629.0
37.5°	608.2	610.8	610.3	611.3
40°	585.3	586.9	586.4	586.4
42.5°	561.9	563.0	561.4	560.4
45°	535.9	534.9	536.5	534.4
47.5°	507.4	507.9	508.4	510.5
50°	478.8	481.9	481.9	481.4
52.5°	450.7	451.7	454.3	454.3
55°	421.6	422.6	423.7	424.2
57.5°	392.0	391.4	393.5	394.0
60°	360.2	360.2	364.4	366.0
62.5°	326.5	328.5	332.7	329.6
65°	293.7	297.9	297.3	299.4
67.5°	259.4	262.0	266.2	266.2
70°	224.6	227.2	229.2	230.8
72.5°	190.8	191.8	197.5	194.4
75°	154.9	158.5	161.7	160.1
77.5°	120.6	125.3	126.3	124.8
80°	90.5	89.9	93.1	92.5
82.5°	60.3	59.8	60.8	61.3
85°	32.2	33.8	31.7	31.2
87.5°	9.4	9.4	8.8	8.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242479
 CATALOG NUMBER: S123DRP-S1000D930-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	19.30	20.85	19.66	21.17	21.48	19.85	21.41	20.21	21.72	22.03
	3H	20.84	22.24	21.22	22.57	22.93	21.18	22.58	21.56	22.91	23.27
	4H	21.41	22.72	21.81	23.07	23.45	21.64	22.96	22.04	23.31	23.68
	6H	21.81	23.02	22.22	23.39	23.78	21.94	23.15	22.35	23.52	23.91
	8H	21.92	23.08	22.35	23.47	23.87	22.01	23.17	22.44	23.56	23.96
	12H	21.99	23.10	22.42	23.48	23.91	22.05	23.15	22.48	23.54	23.97
4H	2H	20.45	21.76	20.85	22.11	22.49	20.61	21.93	21.01	22.27	22.65
	3H	22.04	23.14	22.45	23.54	23.94	22.42	23.51	22.83	23.91	24.31
	4H	22.67	23.65	23.10	24.07	24.50	22.99	23.97	23.42	24.39	24.82
	6H	23.14	24.00	23.59	24.44	24.90	23.35	24.21	23.81	24.65	25.11
	8H	23.28	24.08	23.74	24.52	24.99	23.44	24.24	23.90	24.68	25.15
	12H	23.37	24.09	23.85	24.56	25.03	23.49	24.21	23.97	24.69	25.16
8H	4H	23.15	23.95	23.61	24.39	24.86	23.29	24.09	23.75	24.53	25.00
	6H	23.70	24.36	24.19	24.85	25.33	23.80	24.46	24.30	24.95	25.43
	8H	23.89	24.48	24.40	24.99	25.48	23.95	24.54	24.46	25.05	25.54
	12H	24.03	24.56	24.54	25.05	25.61	24.04	24.57	24.55	25.06	25.62
12H	4H	23.20	23.92	23.68	24.40	24.87	23.30	24.02	23.78	24.50	24.97
	6H	23.77	24.37	24.29	24.88	25.37	23.83	24.43	24.35	24.94	25.43
	8H	24.01	24.54	24.52	25.03	25.59	24.04	24.56	24.55	25.06	25.62