

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: P243320

Luminaire Tested: S123DRP-H1165D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243320
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-H1165D927-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

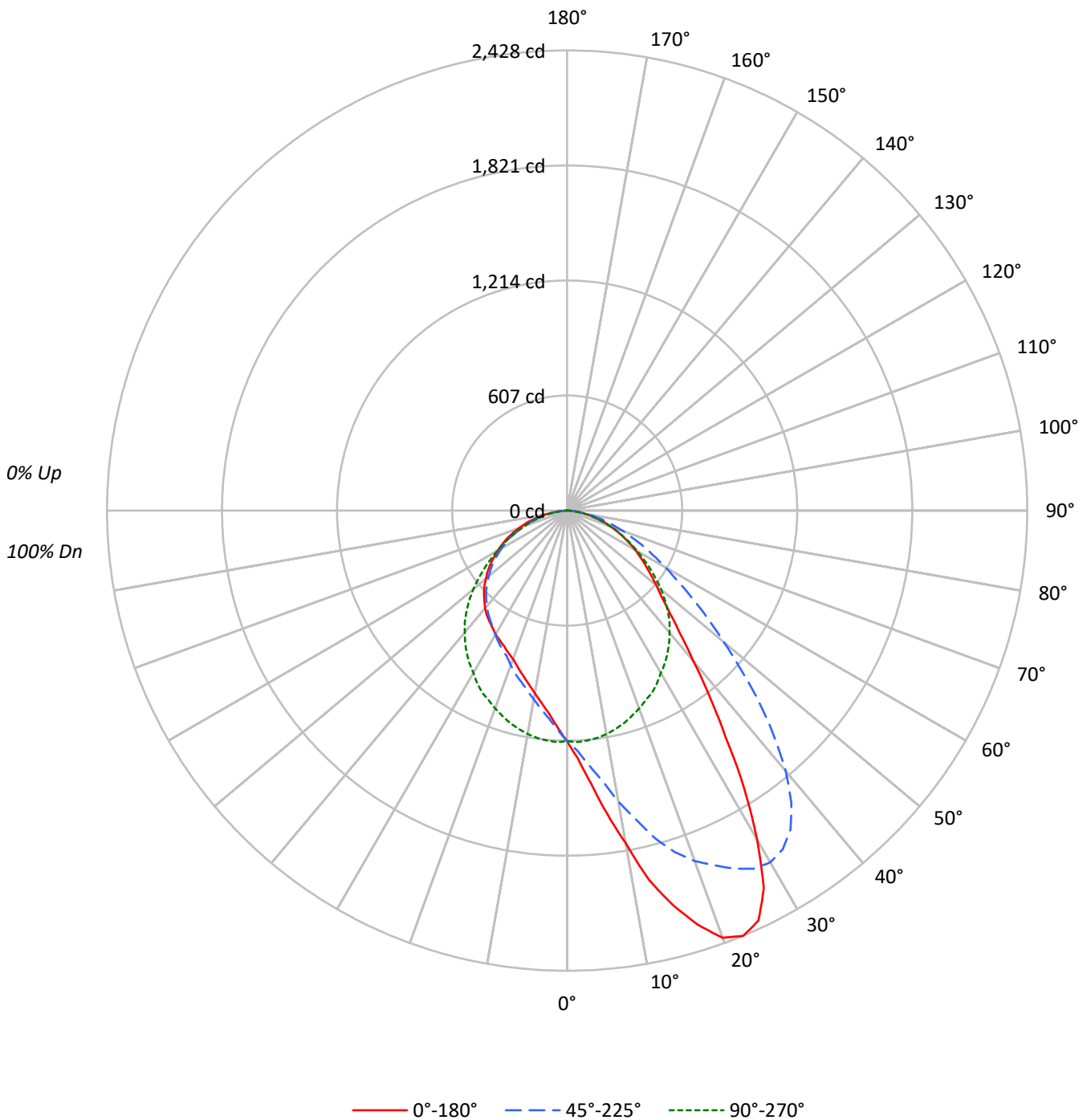
Lumens per Lamp: N/A
Luminaire Lumens: 3667.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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°	14748	14748	14748	14748	14748
5°	17570	16431	14818	13401	13096
10°	21942	19192	14729	12446	12041
15°	27041	22455	14569	11738	11298
20°	30944	25375	14336	11203	10750
25°	31935	27873	14179	10812	10551
30°	28056	30005	13841	10597	10557
35°	21533	30395	13636	10462	10568
40°	16379	28368	13303	10429	10649
45°	13179	24600	12874	10371	10638
50°	11597	20349	12186	10190	10547
55°	10691	17025	11291	10032	10478
60°	10075	14531	10332	9697	10264
65°	9364	12623	9445	9316	10067
70°	8569	10997	8470	8569	9636
75°	7620	9395	7386	7671	8973
80°	6380	7741	6108	6575	7853
85°	4492	5730	4423	4965	5883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 27619 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.3
10°-20°	384.3	10.5
20°-30°	634.8	17.3
30°-40°	726.5	19.8
40°-50°	658.4	18.0
50°-60°	531.9	14.5
60°-70°	370.6	10.1
70°-80°	194.4	5.3
80°-90°	46.3	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°	1138.8	31.1
0°-40°	1865.3	50.9
0°-60°	3055.6	83.3
0°-90°	3667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3667.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1217	1217	1217	1217	1217	
5°	1444	1350	1218	1101	1076	149
15°	2155	1789	1161	935	900	613
25°	2388	2084	1060	808	789	1067
35°	1455	2054	922	707	714	922
45°	769	1435	751	605	621	606
55°	506	806	534	475	496	454
65°	326	440	329	325	351	324
75°	163	201	158	164	192	174
85°	32	41	32	36	42	41
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°	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7
2.5°	1310.3	1313.1	1308.6	1311.4	1304.7	1300.8	1294.7	1291.9	1278.6	1269.1	1265.8
5°	1444.0	1444.0	1445.1	1438.5	1430.7	1416.7	1398.3	1386.6	1373.3	1350.4	1338.7
7.5°	1612.3	1603.9	1598.3	1586.1	1575.5	1552.7	1532.6	1508.7	1477.5	1439.6	1419.5
10°	1782.7	1791.7	1786.1	1773.3	1746.0	1708.7	1679.1	1644.6	1596.1	1559.3	1507.0
12.5°	1995.6	1983.9	1975.0	1955.5	1925.4	1885.8	1840.1	1788.9	1726.5	1665.8	1607.3
15°	2154.9	2156.6	2156.0	2130.4	2100.9	2047.4	2005.0	1919.8	1840.7	1789.4	1692.5
17.5°	2289.7	2297.0	2288.6	2250.2	2224.0	2192.2	2138.2	2043.5	1971.6	1888.6	1781.6
20°	2398.9	2400.0	2386.7	2358.2	2328.2	2292.5	2221.2	2148.8	2078.6	1967.2	1865.2
22.5°	2427.9	2430.7	2427.9	2415.6	2391.1	2353.2	2299.7	2232.9	2144.3	2025.6	1930.9
25°	2387.8	2386.1	2395.6	2388.3	2387.2	2375.0	2339.9	2285.8	2198.4	2084.1	1963.8
27.5°	2247.4	2235.7	2259.6	2290.8	2295.3	2314.8	2315.3	2290.3	2227.3	2129.8	1998.9
30°	2004.5	2015.6	2027.3	2092.5	2128.7	2179.4	2223.4	2239.6	2215.6	2143.8	2021.2
32.5°	1740.4	1776.1	1808.9	1854.1	1907.0	1992.8	2062.4	2123.7	2149.9	2118.1	2021.2
35°	1455.2	1474.1	1525.9	1583.3	1659.6	1726.5	1864.6	1953.8	2033.4	2054.1	1995.6
37.5°	1232.3	1249.6	1267.4	1312.0	1397.8	1509.2	1623.4	1740.4	1858.5	1943.2	1939.9
40°	1035.1	1039.0	1054.6	1093.0	1164.4	1263.5	1383.3	1524.3	1677.5	1792.8	1841.2
42.5°	883.6	883.6	903.1	947.6	988.9	1061.3	1177.2	1301.4	1469.1	1617.3	1720.9
45°	768.8	769.9	785.5	817.3	849.6	906.4	992.2	1109.2	1281.9	1435.1	1579.4
47.5°	675.2	685.8	694.7	711.4	743.7	793.9	856.3	956.0	1079.1	1246.3	1414.5
50°	615.0	617.3	624.0	634.0	659.1	691.9	746.0	821.7	930.9	1079.1	1249.0
52.5°	556.0	556.0	562.7	574.9	589.4	616.2	655.2	718.1	800.0	934.3	1086.9
55°	505.9	507.5	508.6	518.7	530.9	551.0	581.6	622.8	698.1	805.6	938.7
57.5°	456.8	463.0	461.3	469.1	478.0	492.5	514.2	549.9	607.2	689.1	808.9
60°	415.6	414.5	417.3	420.6	426.7	436.8	456.8	483.0	530.9	599.4	697.5
62.5°	368.8	367.7	371.0	374.9	380.5	388.9	403.3	423.4	461.3	512.5	597.8
65°	326.5	325.4	327.0	329.3	335.4	342.1	353.2	369.9	395.0	440.1	505.3
67.5°	284.1	284.1	285.2	287.5	291.4	296.4	305.3	315.3	340.4	370.5	421.7
70°	241.8	242.3	242.3	244.6	247.9	251.8	259.1	268.0	283.6	310.3	351.5
72.5°	205.0	205.0	203.9	205.0	207.2	208.9	213.4	221.7	233.4	252.9	284.1
75°	162.7	165.5	164.9	164.3	166.0	168.8	172.7	179.4	186.6	200.6	224.0
77.5°	124.8	126.5	126.5	127.0	128.7	130.9	132.0	138.7	145.4	153.8	171.0
80°	91.4	92.5	91.4	91.9	93.0	95.3	97.5	98.6	103.6	110.9	119.2
82.5°	61.3	59.6	61.8	61.3	62.4	63.0	64.1	64.6	68.0	72.4	78.0
85°	32.3	35.1	34.5	35.7	34.5	35.1	35.7	37.9	38.4	41.2	44.6
87.5°	12.3	13.4	13.4	13.4	13.4	13.4	14.5	15.0	16.2	16.7	17.8
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°	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7
2.5°	1268.0	1263.0	1255.7	1247.9	1239.6	1231.2	1227.3	1222.3	1212.3	1202.2	1194.4
5°	1329.3	1315.3	1296.4	1282.5	1262.4	1243.5	1228.4	1217.8	1201.7	1182.2	1169.4
7.5°	1397.8	1372.7	1342.6	1312.0	1281.9	1253.5	1230.1	1210.0	1185.0	1161.0	1141.5
10°	1478.6	1430.1	1388.3	1343.7	1299.2	1259.1	1225.6	1196.7	1164.4	1135.4	1111.4
12.5°	1549.9	1493.6	1435.7	1372.7	1312.5	1260.7	1217.8	1180.0	1141.0	1107.5	1083.0
15°	1628.4	1549.3	1469.1	1397.8	1324.8	1261.3	1205.0	1161.0	1116.4	1078.6	1050.2
17.5°	1718.7	1612.8	1512.0	1409.5	1344.9	1263.0	1193.9	1135.9	1090.3	1052.4	1015.6
20°	1772.2	1666.9	1543.2	1437.9	1330.9	1246.8	1169.9	1111.4	1058.0	1014.5	984.4
22.5°	1801.1	1690.3	1561.0	1452.9	1328.1	1234.0	1152.1	1083.0	1025.6	982.2	948.2
25°	1841.8	1690.3	1570.5	1440.7	1332.6	1219.0	1126.5	1060.2	1000.0	949.9	914.2
27.5°	1860.2	1705.3	1571.6	1417.3	1305.9	1190.5	1096.9	1026.8	959.9	910.9	880.2
30°	1875.2	1708.1	1549.3	1398.9	1274.7	1158.8	1067.4	988.9	926.5	879.7	847.4
32.5°	1876.3	1700.9	1519.2	1364.4	1232.9	1121.5	1032.3	958.2	893.0	843.5	811.7
35°	1866.3	1683.0	1484.7	1311.4	1184.4	1083.0	993.9	921.5	855.2	807.8	775.5
37.5°	1840.7	1663.0	1452.4	1261.9	1127.0	1028.4	952.7	883.6	817.8	770.5	743.7
40°	1786.1	1630.7	1410.0	1208.9	1069.1	970.5	904.2	840.7	782.2	733.2	706.4
42.5°	1713.7	1582.2	1358.8	1152.7	1004.5	909.2	850.7	799.5	739.8	697.5	670.2
45°	1611.2	1516.5	1307.5	1093.6	940.4	846.8	793.3	751.0	699.7	657.4	633.4
47.5°	1495.3	1437.3	1241.2	1027.3	873.0	785.0	734.3	700.3	656.8	620.6	596.7
50°	1364.9	1343.2	1168.3	960.5	810.0	719.8	673.0	646.2	609.5	580.5	559.9
52.5°	1223.4	1236.8	1091.4	892.5	749.3	657.9	613.4	588.9	565.5	541.0	521.5
55°	1079.7	1111.4	998.3	818.4	679.7	600.0	556.6	534.3	517.0	496.4	482.5
57.5°	944.9	994.4	902.0	739.3	615.6	539.3	498.1	478.6	465.7	454.6	441.8
60°	813.9	871.3	802.8	665.2	551.5	481.9	445.1	426.2	420.1	411.7	399.4
62.5°	698.1	756.6	705.3	588.9	486.9	427.3	393.9	378.3	369.4	366.6	359.3
65°	589.4	644.0	605.0	509.2	425.6	372.7	343.2	329.3	324.2	323.7	318.1
67.5°	495.3	548.2	512.5	431.8	361.0	318.1	295.8	284.7	279.7	280.2	276.3
70°	408.4	445.7	424.5	361.0	306.4	268.5	251.3	239.0	235.1	235.1	234.0
72.5°	327.6	357.1	341.0	292.5	249.6	220.6	205.6	198.3	195.0	194.4	195.0
75°	256.3	281.9	267.4	229.5	197.2	175.5	162.7	157.7	156.0	154.9	155.4
77.5°	191.6	207.8	198.9	174.4	147.6	132.6	126.5	121.4	119.8	120.3	121.4
80°	135.4	144.3	139.3	123.7	105.9	95.8	91.4	87.5	85.8	87.5	87.5
82.5°	85.8	92.5	88.0	78.0	69.1	62.4	57.9	56.8	56.3	55.2	56.8
85°	46.8	50.1	47.9	44.6	38.4	35.7	32.3	31.8	31.8	31.8	31.8
87.5°	18.4	20.6	17.8	17.8	16.7	13.9	13.9	13.4	12.8	13.4	13.4
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°	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7	1216.7
2.5°	1191.1	1183.9	1179.4	1173.3	1166.0	1156.6	1152.7	1156.6	1154.3	1150.4	1152.1
5°	1158.2	1148.8	1136.5	1126.5	1115.3	1101.4	1096.9	1094.7	1091.4	1089.7	1086.9
7.5°	1125.9	1112.0	1096.9	1083.0	1066.9	1054.6	1049.0	1045.1	1044.0	1035.7	1032.3
10°	1092.5	1075.2	1060.2	1041.2	1027.3	1011.2	1004.5	1000.0	995.0	989.4	985.5
12.5°	1057.4	1040.1	1021.2	1003.4	989.4	971.6	962.7	957.7	953.8	949.9	945.4
15°	1026.8	1009.5	983.3	969.9	953.2	935.4	929.8	918.7	919.8	913.1	908.6
17.5°	994.4	968.8	950.4	930.4	918.1	905.3	894.7	883.0	881.3	876.3	874.7
20°	958.2	931.5	918.7	898.1	881.3	868.5	859.1	857.9	854.6	847.4	844.6
22.5°	922.6	900.8	883.0	864.1	849.0	832.3	827.9	829.5	823.4	821.7	815.6
25°	890.3	871.3	849.0	831.2	819.0	808.4	802.2	800.0	797.8	796.1	793.3
27.5°	855.7	835.7	816.7	802.2	790.5	783.3	779.4	774.4	773.8	773.8	772.7
30°	821.2	803.4	790.5	772.2	761.6	757.1	753.8	752.1	753.8	753.8	754.3
32.5°	789.4	772.2	757.1	744.3	733.7	730.4	729.8	729.8	732.0	732.0	733.7
35°	756.6	739.3	725.4	716.4	707.5	707.0	707.5	708.6	711.4	712.0	714.2
37.5°	720.9	707.5	696.9	685.8	683.6	684.7	685.8	686.9	688.0	692.5	692.5
40°	688.0	678.0	667.4	660.2	656.3	659.1	660.7	661.3	664.6	667.4	669.6
42.5°	655.7	646.2	637.9	631.8	630.1	632.3	634.0	635.7	639.0	641.2	645.1
45°	619.5	613.4	606.1	601.1	601.7	605.0	605.0	610.6	612.8	613.9	616.7
47.5°	586.1	579.4	574.4	572.2	571.6	574.4	576.1	580.5	581.6	585.5	587.8
50°	550.4	545.4	541.5	538.7	539.3	540.4	544.3	548.8	549.9	554.3	558.2
52.5°	513.1	508.6	505.3	506.4	508.1	508.1	512.0	514.8	517.6	520.9	524.8
55°	476.3	470.2	470.8	469.1	470.8	474.7	476.3	480.8	483.0	484.7	490.3
57.5°	436.2	435.1	433.4	431.8	435.1	436.8	439.6	442.3	446.2	448.5	452.4
60°	395.0	393.3	393.3	395.5	396.7	400.0	404.5	406.1	407.2	411.7	416.7
62.5°	357.1	355.4	354.9	358.2	358.2	361.6	363.2	366.0	370.5	372.1	378.8
65°	316.4	315.3	315.3	318.1	318.7	324.8	324.8	324.8	327.6	333.7	337.1
67.5°	274.1	274.7	276.3	278.0	280.2	281.9	282.5	285.8	290.3	294.2	300.8
70°	231.8	234.5	237.9	237.3	239.0	241.8	242.3	245.7	249.6	254.6	262.4
72.5°	193.9	195.5	198.9	198.9	201.1	202.8	205.6	207.8	212.8	217.3	220.6
75°	156.0	156.5	159.3	161.0	162.7	163.8	166.6	170.5	173.3	177.2	182.2
77.5°	122.6	121.4	123.7	124.2	125.3	127.6	129.8	133.7	135.9	140.4	142.1
80°	86.9	89.1	89.7	90.3	91.4	94.2	95.8	97.5	99.7	103.6	105.3
82.5°	57.4	58.5	60.2	60.7	61.8	62.4	63.0	65.7	67.4	68.5	74.1
85°	33.4	35.1	34.0	34.0	35.1	35.7	37.9	37.9	40.1	39.0	41.8
87.5°	14.5	13.9	13.9	14.5	13.9	13.4	15.0	15.0	14.5	15.0	15.0
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: P243320

CATALOG NUMBER: S123DRP-H1165D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1216.7	1216.7	1216.7	1216.7
2.5°	1149.3	1149.3	1144.9	1146.5
5°	1081.3	1083.6	1078.0	1076.3
7.5°	1031.2	1029.0	1025.1	1025.1
10°	982.2	980.0	978.3	978.3
12.5°	939.8	937.6	934.3	937.1
15°	902.0	902.5	900.3	900.3
17.5°	873.0	868.0	866.3	865.7
20°	838.4	839.6	837.3	833.4
22.5°	816.7	813.9	811.7	811.2
25°	794.4	791.7	791.1	788.9
27.5°	772.2	772.7	771.0	771.0
30°	753.8	755.4	753.8	754.3
32.5°	735.4	735.4	735.4	733.2
35°	715.3	715.9	715.3	714.2
37.5°	694.7	694.7	695.3	696.4
40°	671.9	671.9	673.0	673.0
42.5°	644.6	647.4	649.0	646.2
45°	620.1	620.6	621.2	620.6
47.5°	592.8	591.1	591.6	592.8
50°	558.8	562.7	562.7	559.3
52.5°	525.9	527.0	529.3	529.3
55°	493.6	494.2	494.7	495.8
57.5°	456.8	457.4	457.4	456.8
60°	420.1	423.4	422.8	423.4
62.5°	380.5	385.5	387.2	386.6
65°	343.2	344.3	347.1	351.0
67.5°	303.6	306.4	310.9	309.8
70°	264.6	268.5	269.6	271.9
72.5°	225.6	230.6	231.8	232.9
75°	187.7	190.0	192.2	191.6
77.5°	146.5	149.9	153.8	151.5
80°	109.8	110.3	113.7	112.5
82.5°	72.4	76.9	76.9	74.7
85°	42.3	42.3	42.3	42.3
87.5°	14.5	13.9	15.0	14.5
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243320
 CATALOG NUMBER: S123DRP-H1165D927-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	19.75	21.31	20.11	21.62	21.94	20.28	21.84	20.64	22.15	22.47
	3H	21.27	22.67	21.65	23.00	23.36	21.62	23.02	22.00	23.35	23.71
	4H	21.81	23.13	22.21	23.48	23.86	22.07	23.39	22.47	23.74	24.12
	6H	22.18	23.39	22.59	23.76	24.15	22.38	23.59	22.79	23.96	24.35
	8H	22.27	23.44	22.70	23.82	24.22	22.45	23.61	22.88	24.00	24.40
	12H	22.33	23.44	22.76	23.82	24.25	22.49	23.60	22.92	23.98	24.41
4H	2H	20.91	22.23	21.31	22.58	22.96	21.07	22.39	21.47	22.74	23.11
	3H	22.47	23.57	22.88	23.97	24.37	22.86	23.96	23.27	24.36	24.76
	4H	23.07	24.05	23.50	24.47	24.91	23.42	24.41	23.86	24.83	25.26
	6H	23.49	24.35	23.95	24.80	25.25	23.79	24.65	24.25	25.09	25.55
	8H	23.61	24.42	24.07	24.86	25.33	23.88	24.69	24.34	25.13	25.60
	12H	23.69	24.41	24.17	24.88	25.35	23.94	24.66	24.42	25.13	25.60
8H	4H	23.53	24.33	23.99	24.78	25.24	23.73	24.53	24.19	24.98	25.44
	6H	24.03	24.69	24.52	25.18	25.66	24.24	24.90	24.73	25.39	25.87
	8H	24.19	24.79	24.70	25.30	25.78	24.38	24.98	24.90	25.49	25.98
	12H	24.31	24.84	24.82	25.33	25.89	24.48	25.01	24.99	25.50	26.07
12H	4H	23.58	24.30	24.06	24.77	25.24	23.74	24.46	24.22	24.94	25.41
	6H	24.10	24.70	24.61	25.20	25.69	24.27	24.87	24.78	25.38	25.86
	8H	24.31	24.83	24.81	25.33	25.89	24.48	25.00	24.98	25.49	26.06