

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: P243340

Luminaire Tested: S123DRP-H1165D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243340  
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-H1165D930-X4F0-XX-UDD-A-W  
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

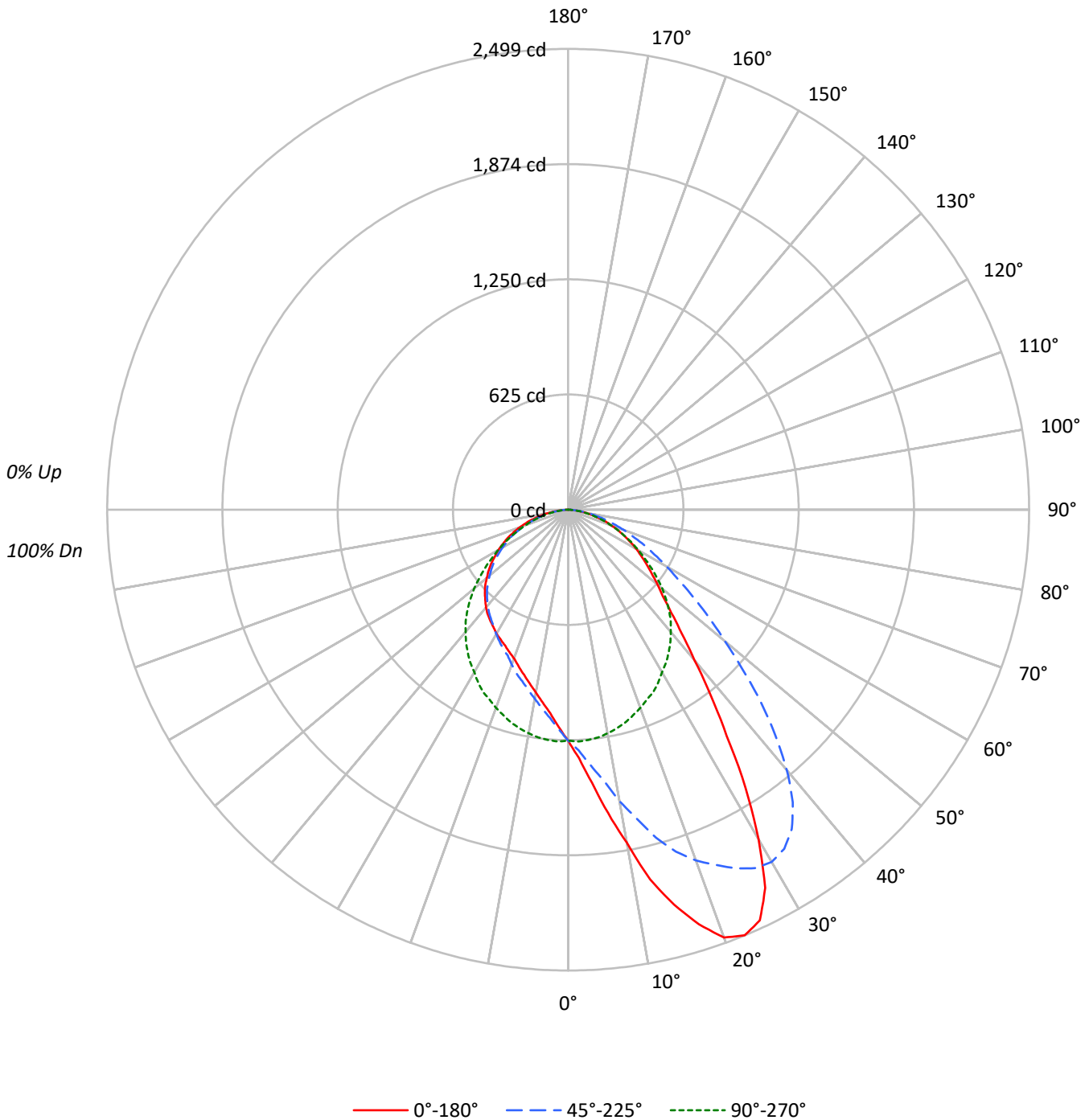
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3774.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 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				
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55					53				
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49					46				
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43					41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38					36				
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34					33				
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31					29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28					27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	15178	15178	15178	15178	15178
5°	18083	16910	15251	13792	13478
10°	22583	19753	15159	12809	12392
15°	27831	23111	14995	12081	11628
20°	31847	26116	14755	11531	11065
25°	32866	28688	14593	11127	10859
30°	28875	30880	14244	10906	10865
35°	22160	31281	14032	10767	10877
40°	16856	29195	13690	10733	10959
45°	13563	25319	13249	10674	10949
50°	11937	20943	12542	10488	10856
55°	11002	17521	11621	10323	10784
60°	10368	14955	10633	9981	10565
65°	9637	12993	9720	9588	10360
70°	8817	11320	8718	8817	9916
75°	7840	9666	7601	7896	9235
80°	6562	7965	6282	6764	8083
85°	4631	5897	4548	5104	6064

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 28425 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	3.3
10°-20°	395.5	10.5
20°-30°	653.3	17.3
30°-40°	747.7	19.8
40°-50°	677.6	18.0
50°-60°	547.5	14.5
60°-70°	381.4	10.1
70°-80°	200.0	5.3
80°-90°	47.7	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°	1172.0	31.1
0°-40°	1919.7	50.9
0°-60°	3144.8	83.3
0°-90°	3774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3774.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1252	1252	1252	1252	1252	
5°	1486	1390	1253	1134	1108	153
15°	2218	1842	1195	963	927	631
25°	2457	2145	1091	832	812	1098
35°	1498	2114	948	728	735	949
45°	791	1477	773	623	639	624
55°	521	829	550	488	510	468
65°	336	453	339	334	361	333
75°	167	206	162	169	197	179
85°	33	42	33	37	44	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°	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2
2.5°	1348.6	1351.4	1346.8	1349.7	1342.8	1338.8	1332.5	1329.6	1315.9	1306.1	1302.7
5°	1486.2	1486.2	1487.3	1480.4	1472.4	1458.1	1439.1	1427.1	1413.3	1389.8	1377.8
7.5°	1659.3	1650.7	1645.0	1632.4	1621.5	1598.0	1577.3	1552.7	1520.6	1481.6	1460.9
10°	1834.8	1843.9	1838.2	1825.0	1796.9	1758.5	1728.1	1692.6	1642.7	1604.9	1551.0
12.5°	2053.8	2041.8	2032.6	2012.5	1981.6	1940.8	1893.8	1841.1	1776.9	1714.4	1654.2
15°	2217.8	2219.5	2218.9	2192.6	2162.2	2107.1	2063.5	1975.8	1894.4	1841.7	1741.9
17.5°	2356.5	2364.0	2355.4	2315.8	2288.9	2256.2	2200.6	2103.1	2029.1	1943.7	1833.6
20°	2468.9	2470.1	2456.3	2427.1	2396.1	2359.4	2286.0	2211.5	2139.2	2024.6	1919.6
22.5°	2498.7	2501.6	2498.7	2486.1	2460.9	2421.9	2366.9	2298.1	2206.9	2084.8	1987.3
25°	2457.4	2455.7	2465.5	2458.0	2456.9	2444.3	2408.1	2352.5	2262.5	2145.0	2021.1
27.5°	2313.0	2300.9	2325.6	2357.7	2362.3	2382.3	2382.9	2357.1	2292.3	2192.0	2057.2
30°	2063.0	2074.4	2086.5	2153.6	2190.8	2243.0	2288.3	2304.9	2280.3	2206.3	2080.2
32.5°	1791.2	1827.9	1861.7	1908.2	1962.6	2050.9	2122.6	2185.7	2212.6	2179.9	2080.2
35°	1497.6	1517.1	1570.5	1629.5	1708.1	1776.9	1919.1	2010.8	2092.8	2114.0	2053.8
37.5°	1268.3	1286.1	1304.4	1350.3	1438.6	1553.2	1670.8	1791.2	1912.7	1999.9	1996.5
40°	1065.3	1069.3	1085.4	1124.9	1198.3	1300.4	1423.7	1568.7	1726.4	1845.1	1895.0
42.5°	909.4	909.4	929.4	975.3	1017.7	1092.3	1211.5	1339.4	1512.0	1664.5	1771.1
45°	791.2	792.4	808.4	841.1	874.4	932.9	1021.2	1141.6	1319.3	1477.0	1625.5
47.5°	694.9	705.8	715.0	732.2	765.4	817.0	881.3	983.9	1110.6	1282.6	1455.8
50°	633.0	635.3	642.2	652.5	678.3	712.1	767.7	845.7	958.1	1110.6	1285.5
52.5°	572.2	572.2	579.1	591.7	606.6	634.1	674.3	739.1	823.4	961.5	1118.6
55°	520.6	522.3	523.5	533.8	546.4	567.1	598.6	641.0	718.4	829.1	966.1
57.5°	470.2	476.5	474.7	482.8	491.9	506.9	529.2	565.9	625.0	709.3	832.5
60°	427.7	426.6	429.5	432.9	439.2	449.5	470.2	497.1	546.4	616.9	717.9
62.5°	379.6	378.4	381.9	385.9	391.6	400.2	415.1	435.8	474.7	527.5	615.2
65°	336.0	334.8	336.6	338.9	345.2	352.0	363.5	380.7	406.5	453.0	520.0
67.5°	292.4	292.4	293.6	295.9	299.9	305.0	314.2	324.5	350.3	381.3	434.0
70°	248.8	249.4	249.4	251.7	255.1	259.2	266.6	275.8	291.8	319.4	361.8
72.5°	211.0	211.0	209.9	211.0	213.3	215.0	219.6	228.2	240.2	260.3	292.4
75°	167.4	170.3	169.7	169.1	170.9	173.7	177.7	184.6	192.1	206.4	230.5
77.5°	128.4	130.2	130.2	130.7	132.4	134.7	135.9	142.8	149.6	158.2	176.0
80°	94.0	95.2	94.0	94.6	95.8	98.0	100.3	101.5	106.6	114.1	122.7
82.5°	63.1	61.4	63.6	63.1	64.2	64.8	65.9	66.5	70.0	74.5	80.3
85°	33.3	36.1	35.5	36.7	35.5	36.1	36.7	39.0	39.6	42.4	45.9
87.5°	12.6	13.8	13.8	13.8	13.8	13.8	14.9	15.5	16.6	17.2	18.3
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°	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2
2.5°	1305.0	1299.8	1292.4	1284.3	1275.7	1267.1	1263.1	1258.0	1247.6	1237.3	1229.3
5°	1368.1	1353.7	1334.2	1319.9	1299.2	1279.8	1264.3	1253.4	1236.8	1216.7	1203.5
7.5°	1438.6	1412.8	1381.8	1350.3	1319.3	1290.1	1266.0	1245.4	1219.6	1194.9	1174.8
10°	1521.7	1471.8	1428.8	1383.0	1337.1	1295.8	1261.4	1231.6	1198.3	1168.5	1143.9
12.5°	1595.1	1537.2	1477.6	1412.8	1350.9	1297.5	1253.4	1214.4	1174.3	1139.9	1114.6
15°	1675.9	1594.5	1512.0	1438.6	1363.5	1298.1	1240.2	1194.9	1149.0	1110.0	1080.8
17.5°	1768.8	1659.9	1556.1	1450.6	1384.1	1299.8	1228.7	1169.1	1122.1	1083.1	1045.2
20°	1823.9	1715.5	1588.2	1479.9	1369.8	1283.2	1204.1	1143.9	1088.8	1044.1	1013.1
22.5°	1853.7	1739.6	1606.6	1495.3	1366.9	1270.0	1185.7	1114.6	1055.6	1010.8	975.9
25°	1895.5	1739.6	1616.3	1482.7	1371.5	1254.5	1159.3	1091.1	1029.2	977.6	940.9
27.5°	1914.5	1755.1	1617.5	1458.6	1344.0	1225.3	1129.0	1056.7	987.9	937.5	905.9
30°	1930.0	1757.9	1594.5	1439.7	1311.9	1192.6	1098.6	1017.7	953.5	905.3	872.1
32.5°	1931.1	1750.5	1563.6	1404.2	1268.9	1154.2	1062.4	986.2	919.1	868.1	835.4
35°	1920.8	1732.1	1528.0	1349.7	1219.0	1114.6	1022.9	948.3	880.1	831.4	798.1
37.5°	1894.4	1711.5	1494.8	1298.7	1159.9	1058.4	980.5	909.4	841.7	793.0	765.4
40°	1838.2	1678.2	1451.2	1244.2	1100.3	998.8	930.6	865.2	805.0	754.6	727.0
42.5°	1763.7	1628.4	1398.4	1186.3	1033.8	935.7	875.5	822.8	761.4	717.9	689.8
45°	1658.2	1560.7	1345.7	1125.5	967.8	871.5	816.5	772.9	720.1	676.6	651.9
47.5°	1538.9	1479.3	1277.5	1057.3	898.5	807.9	755.7	720.7	676.0	638.7	614.1
50°	1404.7	1382.4	1202.3	988.5	833.7	740.8	692.6	665.1	627.3	597.4	576.2
52.5°	1259.1	1272.9	1123.2	918.5	771.2	677.1	631.3	606.0	582.0	556.7	536.7
55°	1111.2	1143.9	1027.5	842.3	699.5	617.5	572.8	549.9	532.1	510.9	496.5
57.5°	972.4	1023.5	928.3	760.9	633.6	555.0	512.6	492.5	479.3	467.9	454.7
60°	837.7	896.7	826.2	684.6	567.6	496.0	458.1	438.6	432.3	423.7	411.1
62.5°	718.4	778.6	725.9	606.0	501.1	439.8	405.4	389.3	380.1	377.3	369.8
65°	606.6	662.8	622.7	524.1	438.1	383.6	353.2	338.9	333.7	333.1	327.4
67.5°	509.7	564.2	527.5	444.4	371.5	327.4	304.5	293.0	287.8	288.4	284.4
70°	420.3	458.7	436.9	371.5	315.4	276.4	258.6	246.0	242.0	242.0	240.8
72.5°	337.1	367.5	350.9	301.0	256.9	227.1	211.6	204.1	200.7	200.1	200.7
75°	263.7	290.1	275.2	236.2	203.0	180.6	167.4	162.3	160.5	159.4	160.0
77.5°	197.2	213.9	204.7	179.5	151.9	136.5	130.2	125.0	123.3	123.8	125.0
80°	139.3	148.5	143.3	127.3	108.9	98.6	94.0	90.0	88.3	90.0	90.0
82.5°	88.3	95.2	90.6	80.3	71.1	64.2	59.6	58.5	57.9	56.8	58.5
85°	48.2	51.6	49.3	45.9	39.6	36.7	33.3	32.7	32.7	32.7	32.7
87.5°	18.9	21.2	18.3	18.3	17.2	14.3	14.3	13.8	13.2	13.8	13.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2	1252.2
2.5°	1225.9	1218.4	1213.8	1207.5	1200.1	1190.3	1186.3	1190.3	1188.0	1184.0	1185.7
5°	1192.0	1182.3	1169.7	1159.3	1147.9	1133.5	1129.0	1126.7	1123.2	1121.5	1118.6
7.5°	1158.8	1144.4	1129.0	1114.6	1098.0	1085.4	1079.6	1075.6	1074.5	1065.9	1062.4
10°	1124.4	1106.6	1091.1	1071.6	1057.3	1040.7	1033.8	1029.2	1024.0	1018.3	1014.3
12.5°	1088.2	1070.5	1051.0	1032.6	1018.3	1000.0	990.8	985.6	981.6	977.6	973.0
15°	1056.7	1038.9	1012.0	998.2	981.0	962.7	956.9	945.5	946.6	939.7	935.2
17.5°	1023.5	997.1	978.2	957.5	944.9	931.7	920.8	908.8	907.1	901.9	900.2
20°	986.2	958.7	945.5	924.3	907.1	893.9	884.1	883.0	879.5	872.1	869.2
22.5°	949.5	927.1	908.8	889.3	873.8	856.6	852.0	853.7	847.4	845.7	839.4
25°	916.2	896.7	873.8	855.5	842.8	832.0	825.6	823.4	821.1	819.3	816.5
27.5°	880.7	860.0	840.6	825.6	813.6	806.2	802.1	797.0	796.4	796.4	795.3
30°	845.1	826.8	813.6	794.7	783.8	779.2	775.8	774.0	775.8	775.8	776.3
32.5°	812.5	794.7	779.2	766.0	755.1	751.7	751.1	751.1	753.4	753.4	755.1
35°	778.6	760.9	746.5	737.3	728.2	727.6	728.2	729.3	732.2	732.8	735.1
37.5°	741.9	728.2	717.3	705.8	703.5	704.7	705.8	707.0	708.1	712.7	712.7
40°	708.1	697.8	686.9	679.4	675.4	678.3	680.0	680.6	684.0	686.9	689.2
42.5°	674.9	665.1	656.5	650.2	648.5	650.8	652.5	654.2	657.7	659.9	664.0
45°	637.6	631.3	623.8	618.7	619.2	622.7	622.7	628.4	630.7	631.8	634.7
47.5°	603.2	596.3	591.1	588.8	588.3	591.1	592.9	597.4	598.6	602.6	604.9
50°	566.5	561.3	557.3	554.4	555.0	556.2	560.2	564.8	565.9	570.5	574.5
52.5°	528.1	523.5	520.0	521.2	522.9	522.9	526.9	529.8	532.7	536.1	540.1
55°	490.2	483.9	484.5	482.8	484.5	488.5	490.2	494.8	497.1	498.8	504.6
57.5°	448.9	447.8	446.1	444.4	447.8	449.5	452.4	455.3	459.3	461.6	465.6
60°	406.5	404.8	404.8	407.1	408.2	411.7	416.3	418.0	419.1	423.7	428.9
62.5°	367.5	365.8	365.2	368.7	368.7	372.1	373.8	376.7	381.3	383.0	389.9
65°	325.7	324.5	324.5	327.4	328.0	334.3	334.3	334.3	337.1	343.4	346.9
67.5°	282.1	282.7	284.4	286.1	288.4	290.1	290.7	294.1	298.7	302.7	309.6
70°	238.5	241.4	244.8	244.3	246.0	248.8	249.4	252.9	256.9	262.0	270.1
72.5°	199.5	201.3	204.7	204.7	207.0	208.7	211.6	213.9	219.0	223.6	227.1
75°	160.5	161.1	164.0	165.7	167.4	168.6	171.4	175.5	178.3	182.3	187.5
77.5°	126.1	125.0	127.3	127.9	129.0	131.3	133.6	137.6	139.9	144.5	146.2
80°	89.4	91.7	92.3	92.9	94.0	96.9	98.6	100.3	102.6	106.6	108.4
82.5°	59.1	60.2	61.9	62.5	63.6	64.2	64.8	67.7	69.4	70.5	76.3
85°	34.4	36.1	35.0	35.0	36.1	36.7	39.0	39.0	41.3	40.1	43.0
87.5°	14.9	14.3	14.3	14.9	14.3	13.8	15.5	15.5	14.9	15.5	15.5
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: P243340

CATALOG NUMBER: S123DRP-H1165D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1252.2	1252.2	1252.2	1252.2
2.5°	1182.9	1182.9	1178.3	1180.0
5°	1112.9	1115.2	1109.5	1107.7
7.5°	1061.3	1059.0	1055.0	1055.0
10°	1010.8	1008.6	1006.8	1006.8
12.5°	967.3	965.0	961.5	964.4
15°	928.3	928.9	926.6	926.6
17.5°	898.5	893.3	891.6	891.0
20°	862.9	864.1	861.8	857.8
22.5°	840.6	837.7	835.4	834.8
25°	817.6	814.8	814.2	811.9
27.5°	794.7	795.3	793.5	793.5
30°	775.8	777.5	775.8	776.3
32.5°	756.8	756.8	756.8	754.6
35°	736.2	736.8	736.2	735.1
37.5°	715.0	715.0	715.6	716.7
40°	691.5	691.5	692.6	692.6
42.5°	663.4	666.3	668.0	665.1
45°	638.2	638.7	639.3	638.7
47.5°	610.1	608.3	608.9	610.1
50°	575.1	579.1	579.1	575.7
52.5°	541.3	542.4	544.7	544.7
55°	508.0	508.6	509.1	510.3
57.5°	470.2	470.7	470.7	470.2
60°	432.3	435.8	435.2	435.8
62.5°	391.6	396.8	398.5	397.9
65°	353.2	354.3	357.2	361.2
67.5°	312.5	315.4	319.9	318.8
70°	272.3	276.4	277.5	279.8
72.5°	232.2	237.4	238.5	239.7
75°	193.2	195.5	197.8	197.2
77.5°	150.8	154.2	158.2	156.0
80°	113.0	113.5	117.0	115.8
82.5°	74.5	79.1	79.1	76.8
85°	43.6	43.6	43.6	43.6
87.5°	14.9	14.3	15.5	14.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243340  
 CATALOG NUMBER: S123DRP-H1165D930-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	19.85	21.41	20.21	21.72	22.04	20.38	21.94	20.74	22.25	22.57
	3H	21.37	22.77	21.75	23.10	23.46	21.72	23.12	22.10	23.45	23.81
	4H	21.91	23.23	22.31	23.58	23.96	22.17	23.49	22.57	23.84	24.22
	6H	22.28	23.49	22.69	23.86	24.25	22.48	23.69	22.89	24.06	24.45
	8H	22.37	23.54	22.80	23.92	24.32	22.55	23.71	22.98	24.10	24.50
	12H	22.43	23.54	22.86	23.92	24.35	22.59	23.70	23.02	24.08	24.51
4H	2H	21.01	22.33	21.41	22.68	23.06	21.17	22.49	21.57	22.84	23.21
	3H	22.57	23.67	22.98	24.07	24.47	22.96	24.06	23.37	24.46	24.86
	4H	23.17	24.15	23.60	24.57	25.01	23.52	24.51	23.96	24.93	25.37
	6H	23.59	24.45	24.05	24.90	25.35	23.89	24.75	24.35	25.19	25.65
	8H	23.71	24.52	24.17	24.96	25.43	23.98	24.79	24.44	25.23	25.70
	12H	23.79	24.51	24.27	24.98	25.45	24.04	24.76	24.52	25.23	25.70
8H	4H	23.63	24.43	24.09	24.88	25.34	23.83	24.63	24.29	25.08	25.54
	6H	24.13	24.79	24.62	25.28	25.76	24.34	25.00	24.83	25.49	25.97
	8H	24.29	24.89	24.80	25.40	25.88	24.48	25.08	25.00	25.59	26.08
	12H	24.41	24.94	24.92	25.43	25.99	24.58	25.11	25.09	25.60	26.17
12H	4H	23.68	24.40	24.16	24.87	25.34	23.84	24.56	24.32	25.04	25.51
	6H	24.20	24.80	24.71	25.30	25.79	24.37	24.97	24.88	25.48	25.96
	8H	24.41	24.93	24.91	25.42	25.99	24.58	25.10	25.08	25.59	26.16