

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: P243350

Luminaire Tested: S123DRP-H1165D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243350
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-H1165D940-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

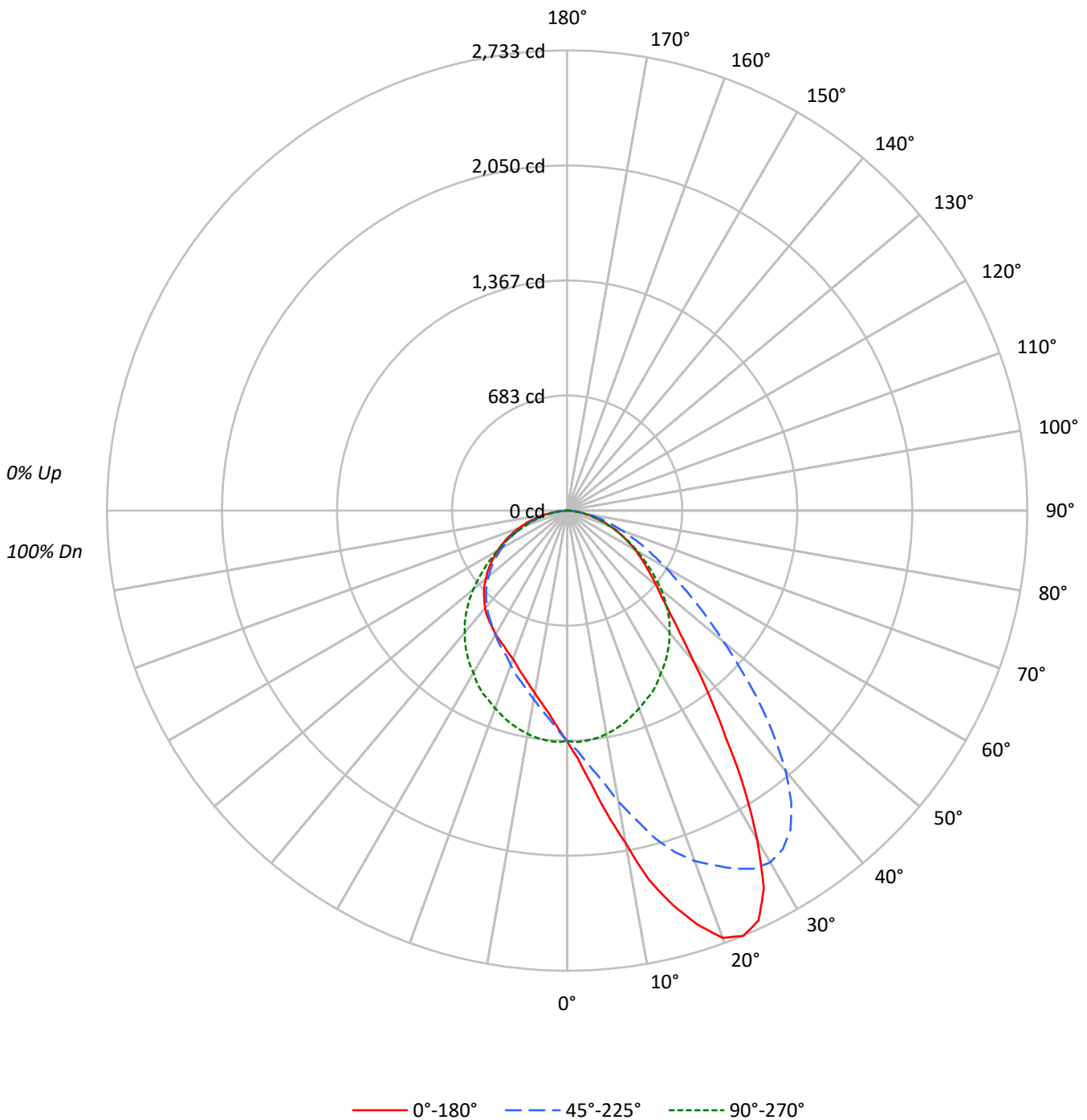
Lumens per Lamp: N/A
Luminaire Lumens: 4127.7 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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°	16601	16601	16601	16601	16601
5°	19778	18496	16679	15085	14742
10°	24699	21605	16579	14009	13554
15°	30438	25277	16400	13213	12717
20°	34832	28563	16138	12611	12101
25°	35947	31376	15961	12169	11876
30°	31580	33775	15579	11928	11884
35°	24238	34213	15348	11776	11896
40°	18437	31931	14973	11739	11986
45°	14835	27691	14490	11674	11975
50°	13055	22906	13717	11471	11873
55°	12033	19163	12709	11291	11794
60°	11341	16359	11629	10916	11554
65°	10540	14209	10629	10486	11332
70°	9647	12379	9533	9647	10845
75°	8575	10575	8313	8636	10102
80°	7176	8711	6876	7399	8844
85°	5062	6453	4965	5577	6634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 31089 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	3.3
10°-20°	432.6	10.5
20°-30°	714.5	17.3
30°-40°	817.8	19.8
40°-50°	741.1	18.0
50°-60°	598.8	14.5
60°-70°	417.2	10.1
70°-80°	218.8	5.3
80°-90°	52.2	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°	1281.9	31.1
0°-40°	2099.7	50.9
0°-60°	3439.5	83.3
0°-90°	4127.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1370	1370	1370	1370	1370	
5°	1626	1520	1371	1240	1212	167
15°	2426	2014	1307	1053	1013	690
25°	2688	2346	1193	910	888	1201
35°	1638	2312	1037	796	804	1038
45°	865	1615	845	681	699	682
55°	569	907	601	534	558	512
65°	368	495	371	366	395	364
75°	183	226	178	184	216	196
85°	36	46	36	40	48	46
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°	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6
2.5°	1474.9	1478.1	1473.1	1476.2	1468.7	1464.3	1457.4	1454.3	1439.2	1428.5	1424.8
5°	1625.5	1625.5	1626.7	1619.2	1610.4	1594.7	1574.0	1560.9	1545.8	1520.1	1506.9
7.5°	1814.8	1805.4	1799.2	1785.4	1773.4	1747.7	1725.2	1698.2	1663.1	1620.4	1597.9
10°	2006.7	2016.8	2010.5	1996.1	1965.3	1923.3	1890.1	1851.2	1796.7	1755.3	1696.3
12.5°	2246.3	2233.1	2223.1	2201.1	2167.3	2122.7	2071.3	2013.6	1943.4	1875.0	1809.2
15°	2425.6	2427.5	2426.9	2398.0	2364.8	2304.6	2256.9	2161.0	2071.9	2014.3	1905.1
17.5°	2577.4	2585.5	2576.1	2532.9	2503.4	2467.7	2406.8	2300.2	2219.3	2125.9	2005.5
20°	2700.3	2701.6	2686.5	2654.5	2620.7	2580.5	2500.3	2418.7	2339.7	2214.3	2099.5
22.5°	2732.9	2736.1	2732.9	2719.1	2691.5	2648.9	2588.7	2513.4	2413.7	2280.1	2173.5
25°	2687.8	2685.9	2696.5	2688.4	2687.1	2673.3	2633.8	2573.0	2474.5	2346.0	2210.5
27.5°	2529.7	2516.6	2543.5	2578.6	2583.7	2605.6	2606.2	2578.0	2507.2	2397.4	2250.0
30°	2256.3	2268.9	2282.0	2355.4	2396.2	2453.2	2502.8	2521.0	2494.0	2413.1	2275.1
32.5°	1959.1	1999.2	2036.2	2087.0	2146.6	2243.1	2321.5	2390.5	2420.0	2384.2	2275.1
35°	1638.0	1659.3	1717.6	1782.2	1868.1	1943.4	2098.9	2199.3	2288.9	2312.1	2246.3
37.5°	1387.2	1406.6	1426.7	1476.8	1573.4	1698.8	1827.4	1959.1	2092.0	2187.3	2183.6
40°	1165.2	1169.5	1187.1	1230.4	1310.6	1422.3	1557.1	1715.8	1888.2	2018.0	2072.6
42.5°	994.6	994.6	1016.5	1066.7	1113.1	1194.6	1325.1	1464.9	1653.7	1820.5	1937.1
45°	865.4	866.7	884.2	920.0	956.3	1020.3	1116.9	1248.6	1443.0	1615.4	1777.8
47.5°	760.0	772.0	782.0	800.8	837.2	893.6	963.9	1076.1	1214.7	1402.8	1592.2
50°	692.3	694.8	702.4	713.6	741.9	778.9	839.7	925.0	1047.9	1214.7	1406.0
52.5°	625.8	625.8	633.4	647.2	663.5	693.6	737.5	808.3	900.5	1051.7	1223.5
55°	569.4	571.3	572.5	583.8	597.6	620.2	654.7	701.1	785.8	906.8	1056.7
57.5°	514.2	521.1	519.2	528.0	538.1	554.4	578.8	619.0	683.5	775.7	910.6
60°	467.8	466.6	469.7	473.5	480.4	491.6	514.2	543.7	597.6	674.8	785.1
62.5°	415.1	413.9	417.7	422.0	428.3	437.7	454.0	476.6	519.2	576.9	672.9
65°	367.5	366.2	368.1	370.6	377.5	385.0	397.6	416.4	444.6	495.4	568.8
67.5°	319.8	319.8	321.1	323.6	328.0	333.6	343.7	354.9	383.2	417.0	474.7
70°	272.2	272.8	272.8	275.3	279.1	283.5	291.6	301.6	319.2	349.3	395.7
72.5°	230.8	230.8	229.5	230.8	233.3	235.2	240.2	249.6	262.8	284.7	319.8
75°	183.1	186.2	185.6	185.0	186.9	190.0	194.4	201.9	210.1	225.8	252.1
77.5°	140.5	142.4	142.4	143.0	144.9	147.4	148.6	156.1	163.7	173.1	192.5
80°	102.8	104.1	102.8	103.5	104.7	107.2	109.7	111.0	116.6	124.8	134.2
82.5°	69.0	67.1	69.6	69.0	70.2	70.9	72.1	72.7	76.5	81.5	87.8
85°	36.4	39.5	38.9	40.1	38.9	39.5	40.1	42.6	43.3	46.4	50.2
87.5°	13.8	15.1	15.1	15.1	15.1	15.1	16.3	16.9	18.2	18.8	20.1
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°	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6
2.5°	1427.3	1421.6	1413.5	1404.7	1395.3	1385.9	1381.5	1375.9	1364.6	1353.3	1344.5
5°	1496.3	1480.6	1459.3	1443.6	1421.0	1399.7	1382.8	1370.8	1352.7	1330.7	1316.3
7.5°	1573.4	1545.2	1511.3	1476.8	1443.0	1411.0	1384.6	1362.1	1333.8	1306.9	1284.9
10°	1664.3	1609.8	1562.7	1512.6	1462.4	1417.3	1379.6	1347.0	1310.6	1278.0	1251.1
12.5°	1744.6	1681.3	1616.0	1545.2	1477.5	1419.1	1370.8	1328.2	1284.3	1246.7	1219.1
15°	1833.0	1744.0	1653.7	1573.4	1491.3	1419.8	1356.4	1306.9	1256.7	1214.1	1182.1
17.5°	1934.6	1815.5	1702.0	1586.6	1513.8	1421.6	1343.9	1278.7	1227.2	1184.6	1143.2
20°	1994.8	1876.3	1737.1	1618.6	1498.1	1403.5	1316.9	1251.1	1190.9	1142.0	1108.1
22.5°	2027.4	1902.6	1757.1	1635.5	1495.0	1389.0	1296.8	1219.1	1154.5	1105.6	1067.3
25°	2073.2	1902.6	1767.8	1621.7	1500.0	1372.1	1268.0	1193.4	1125.7	1069.2	1029.1
27.5°	2093.9	1919.6	1769.1	1595.4	1469.9	1340.1	1234.8	1155.8	1080.5	1025.3	990.8
30°	2110.8	1922.7	1744.0	1574.7	1434.8	1304.4	1201.5	1113.1	1042.9	990.2	953.8
32.5°	2112.1	1914.5	1710.1	1535.8	1387.8	1262.4	1162.0	1078.6	1005.2	949.4	913.7
35°	2100.8	1894.5	1671.2	1476.2	1333.2	1219.1	1118.8	1037.2	962.6	909.3	872.9
37.5°	2071.9	1871.9	1634.9	1420.4	1268.6	1157.6	1072.3	994.6	920.6	867.3	837.2
40°	2010.5	1835.5	1587.2	1360.8	1203.4	1092.4	1017.8	946.3	880.5	825.3	795.2
42.5°	1929.0	1781.0	1529.5	1297.5	1130.7	1023.4	957.6	899.9	832.8	785.1	754.4
45°	1813.6	1707.0	1471.8	1231.0	1058.6	953.2	893.0	845.3	787.6	740.0	713.0
47.5°	1683.1	1617.9	1397.2	1156.4	982.7	883.6	826.5	788.3	739.4	698.6	671.6
50°	1536.4	1511.9	1315.0	1081.1	911.8	810.2	757.5	727.4	686.1	653.4	630.2
52.5°	1377.1	1392.2	1228.5	1004.6	843.5	740.6	690.4	662.8	636.5	608.9	587.0
55°	1215.3	1251.1	1123.8	921.2	765.1	675.4	626.5	601.4	582.0	558.7	543.1
57.5°	1063.6	1119.4	1015.3	832.2	692.9	607.0	560.6	538.7	524.3	511.7	497.3
60°	916.2	980.8	903.7	748.8	620.8	542.4	501.1	479.7	472.8	463.4	449.6
62.5°	785.8	851.6	793.9	662.8	548.1	481.0	443.4	425.8	415.8	412.6	404.5
65°	663.5	724.9	681.0	573.2	479.1	419.5	386.3	370.6	365.0	364.3	358.1
67.5°	557.5	617.1	576.9	486.0	406.4	358.1	333.0	320.4	314.8	315.4	311.0
70°	459.7	501.7	477.9	406.4	344.9	302.3	282.8	269.0	264.6	264.6	263.4
72.5°	368.7	402.0	383.8	329.2	280.9	248.3	231.4	223.2	219.5	218.9	219.5
75°	288.5	317.3	301.0	258.4	222.0	197.5	183.1	177.5	175.6	174.3	175.0
77.5°	215.7	233.9	223.9	196.3	166.2	149.3	142.4	136.7	134.8	135.5	136.7
80°	152.4	162.4	156.8	139.2	119.1	107.9	102.8	98.5	96.6	98.5	98.5
82.5°	96.6	104.1	99.1	87.8	77.8	70.2	65.2	64.0	63.3	62.1	64.0
85°	52.7	56.4	53.9	50.2	43.3	40.1	36.4	35.7	35.7	35.7	35.7
87.5°	20.7	23.2	20.1	20.1	18.8	15.7	15.7	15.1	14.4	15.1	15.1
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°	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6	1369.6
2.5°	1340.7	1332.6	1327.6	1320.7	1312.5	1301.9	1297.5	1301.9	1299.4	1295.0	1296.8
5°	1303.7	1293.1	1279.3	1268.0	1255.5	1239.8	1234.8	1232.3	1228.5	1226.6	1223.5
7.5°	1267.4	1251.7	1234.8	1219.1	1200.9	1187.1	1180.8	1176.4	1175.2	1165.8	1162.0
10°	1229.7	1210.3	1193.4	1172.1	1156.4	1138.2	1130.7	1125.7	1120.0	1113.7	1109.3
12.5°	1190.2	1170.8	1149.5	1129.4	1113.7	1093.7	1083.6	1078.0	1073.6	1069.2	1064.2
15°	1155.8	1136.3	1106.8	1091.8	1073.0	1052.9	1046.6	1034.1	1035.3	1027.8	1022.8
17.5°	1119.4	1090.5	1069.8	1047.3	1033.5	1019.0	1007.1	994.0	992.1	986.4	984.6
20°	1078.6	1048.5	1034.1	1010.9	992.1	977.7	967.0	965.7	962.0	953.8	950.7
22.5°	1038.5	1014.0	994.0	972.6	955.7	936.9	931.9	933.8	926.9	925.0	918.1
25°	1002.1	980.8	955.7	935.6	921.8	909.9	903.0	900.5	898.0	896.1	893.0
27.5°	963.2	940.7	919.3	903.0	889.9	881.7	877.3	871.7	871.0	871.0	869.8
30°	924.4	904.3	889.9	869.2	857.3	852.2	848.5	846.6	848.5	848.5	849.1
32.5°	888.6	869.2	852.2	837.8	825.9	822.1	821.5	821.5	824.0	824.0	825.9
35°	851.6	832.2	816.5	806.5	796.4	795.8	796.4	797.7	800.8	801.4	803.9
37.5°	811.5	796.4	784.5	772.0	769.5	770.7	772.0	773.2	774.5	779.5	779.5
40°	774.5	763.2	751.3	743.1	738.7	741.9	743.7	744.4	748.1	751.3	753.8
42.5°	738.1	727.4	718.0	711.1	709.3	711.8	713.6	715.5	719.3	721.8	726.2
45°	697.3	690.4	682.3	676.6	677.3	681.0	681.0	687.3	689.8	691.1	694.2
47.5°	659.7	652.2	646.5	644.0	643.4	646.5	648.4	653.4	654.7	659.1	661.6
50°	619.6	613.9	609.5	606.4	607.0	608.3	612.7	617.7	619.0	624.0	628.4
52.5°	577.6	572.5	568.8	570.0	571.9	571.9	576.3	579.4	582.6	586.3	590.7
55°	536.2	529.3	529.9	528.0	529.9	534.3	536.2	541.2	543.7	545.6	551.9
57.5°	491.0	489.8	487.9	486.0	489.8	491.6	494.8	497.9	502.3	504.8	509.2
60°	444.6	442.7	442.7	445.2	446.5	450.3	455.3	457.2	458.4	463.4	469.1
62.5°	402.0	400.1	399.5	403.2	403.2	407.0	408.9	412.0	417.0	418.9	426.4
65°	356.2	354.9	354.9	358.1	358.7	365.6	365.6	365.6	368.7	375.6	379.4
67.5°	308.5	309.2	311.0	312.9	315.4	317.3	317.9	321.7	326.7	331.1	338.6
70°	260.9	264.0	267.8	267.1	269.0	272.2	272.8	276.6	280.9	286.6	295.4
72.5°	218.2	220.1	223.9	223.9	226.4	228.3	231.4	233.9	239.6	244.6	248.3
75°	175.6	176.2	179.4	181.2	183.1	184.4	187.5	191.9	195.0	199.4	205.1
77.5°	138.0	136.7	139.2	139.8	141.1	143.6	146.1	150.5	153.0	158.0	159.9
80°	97.8	100.3	101.0	101.6	102.8	106.0	107.9	109.7	112.3	116.6	118.5
82.5°	64.6	65.8	67.7	68.4	69.6	70.2	70.9	74.0	75.9	77.1	83.4
85°	37.6	39.5	38.3	38.3	39.5	40.1	42.6	42.6	45.2	43.9	47.0
87.5°	16.3	15.7	15.7	16.3	15.7	15.1	16.9	16.9	16.3	16.9	16.9
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: P243350

CATALOG NUMBER: S123DRP-H1165D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1369.6	1369.6	1369.6	1369.6
2.5°	1293.7	1293.7	1288.7	1290.6
5°	1217.2	1219.7	1213.4	1211.6
7.5°	1160.8	1158.3	1153.9	1153.9
10°	1105.6	1103.1	1101.2	1101.2
12.5°	1057.9	1055.4	1051.7	1054.8
15°	1015.3	1015.9	1013.4	1013.4
17.5°	982.7	977.0	975.1	974.5
20°	943.8	945.0	942.5	938.1
22.5°	919.3	916.2	913.7	913.1
25°	894.2	891.1	890.5	888.0
27.5°	869.2	869.8	867.9	867.9
30°	848.5	850.4	848.5	849.1
32.5°	827.8	827.8	827.8	825.3
35°	805.2	805.8	805.2	803.9
37.5°	782.0	782.0	782.6	783.9
40°	756.3	756.3	757.5	757.5
42.5°	725.6	728.7	730.6	727.4
45°	698.0	698.6	699.2	698.6
47.5°	667.2	665.4	666.0	667.2
50°	629.0	633.4	633.4	629.6
52.5°	592.0	593.2	595.7	595.7
55°	555.6	556.2	556.9	558.1
57.5°	514.2	514.9	514.9	514.2
60°	472.8	476.6	476.0	476.6
62.5°	428.3	434.0	435.8	435.2
65°	386.3	387.5	390.7	395.1
67.5°	341.8	344.9	349.9	348.7
70°	297.9	302.3	303.5	306.0
72.5°	254.0	259.6	260.9	262.1
75°	211.3	213.8	216.4	215.7
77.5°	164.9	168.7	173.1	170.6
80°	123.5	124.2	127.9	126.7
82.5°	81.5	86.5	86.5	84.0
85°	47.7	47.7	47.7	47.7
87.5°	16.3	15.7	16.9	16.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243350
 CATALOG NUMBER: S123DRP-H1165D940-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	20.16	21.72	20.52	22.03	22.35	20.69	22.25	21.05	22.56	22.88
	3H	21.68	23.08	22.06	23.41	23.77	22.03	23.43	22.41	23.76	24.12
	4H	22.23	23.54	22.62	23.89	24.27	22.48	23.80	22.88	24.15	24.53
	6H	22.59	23.81	23.00	24.17	24.56	22.79	24.01	23.20	24.37	24.76
	8H	22.68	23.85	23.11	24.24	24.64	22.86	24.02	23.29	24.41	24.81
	12H	22.74	23.85	23.17	24.23	24.66	22.90	24.01	23.33	24.39	24.82
4H	2H	21.32	22.64	21.72	22.99	23.37	21.48	22.80	21.88	23.15	23.53
	3H	22.88	23.98	23.29	24.38	24.78	23.27	24.37	23.68	24.77	25.17
	4H	23.48	24.47	23.91	24.88	25.32	23.84	24.82	24.27	25.24	25.68
	6H	23.90	24.77	24.36	25.21	25.67	24.20	25.06	24.66	25.51	25.96
	8H	24.02	24.83	24.49	25.27	25.74	24.29	25.10	24.76	25.54	26.01
	12H	24.10	24.82	24.58	25.30	25.77	24.35	25.07	24.83	25.54	26.01
8H	4H	23.94	24.74	24.40	25.19	25.65	24.14	24.94	24.60	25.39	25.85
	6H	24.44	25.11	24.94	25.60	26.07	24.65	25.31	25.14	25.80	26.28
	8H	24.60	25.20	25.11	25.71	26.20	24.80	25.39	25.31	25.90	26.39
	12H	24.72	25.25	25.23	25.74	26.30	24.89	25.42	25.40	25.91	26.48
12H	4H	23.99	24.71	24.47	25.19	25.66	24.15	24.87	24.63	25.35	25.82
	6H	24.51	25.11	25.02	25.62	26.10	24.68	25.28	25.19	25.79	26.28
	8H	24.72	25.24	25.23	25.74	26.30	24.89	25.41	25.40	25.91	26.47