

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: P243330

Luminaire Tested: S123DRP-H1165D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243330
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-H1165D835-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

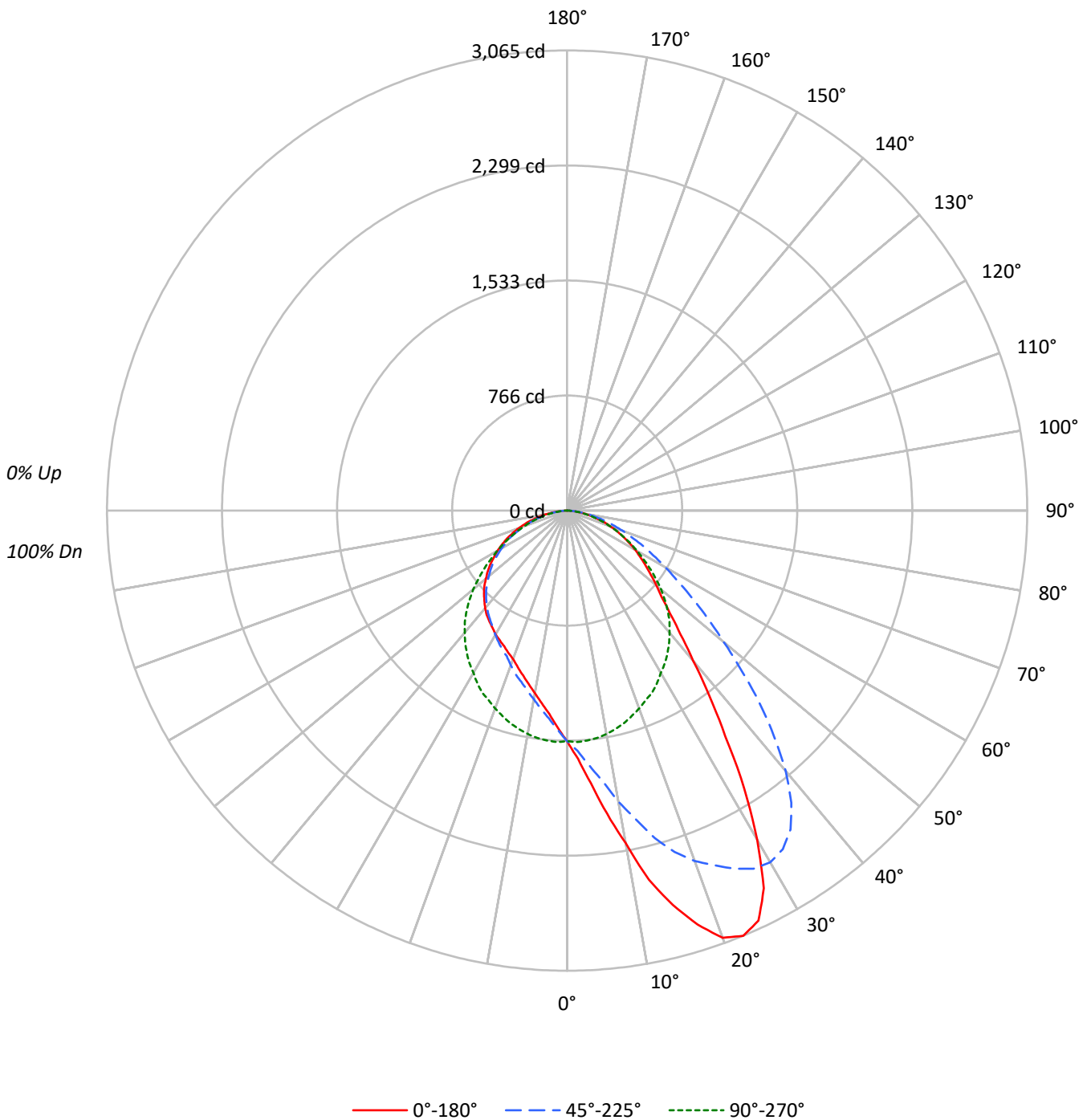
Lumens per Lamp: N/A
Luminaire Lumens: 4628.9 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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°	18617	18617	18617	18617	18617
5°	22179	20742	18705	16917	16532
10°	27698	24227	18593	15710	15199
15°	34135	28347	18392	14818	14262
20°	39061	32031	18097	14143	13571
25°	40313	35186	17899	13647	13318
30°	35415	37876	17472	13376	13327
35°	27181	38368	17212	13205	13341
40°	20676	35809	16792	13165	13442
45°	16636	31054	16251	13091	13429
50°	14641	25687	15384	12864	13315
55°	13495	21490	14252	12663	13227
60°	12718	18344	13042	12240	12958
65°	11820	15935	11920	11759	12709
70°	10816	13882	10692	10816	12163
75°	9619	11858	9320	9685	11329
80°	8048	9765	7706	8300	9919
85°	5674	7232	5577	6258	7427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 34863 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.3
10°-20°	485.2	10.5
20°-30°	801.3	17.3
30°-40°	917.1	19.8
40°-50°	831.1	18.0
50°-60°	671.5	14.5
60°-70°	467.9	10.1
70°-80°	245.4	5.3
80°-90°	58.5	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°	1437.6	31.1
0°-40°	2354.7	50.9
0°-60°	3857.2	83.3
0°-90°	4628.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4628.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1536	1536	1536	1536	1536	
5°	1823	1705	1537	1390	1359	188
15°	2720	2259	1466	1181	1136	774
25°	3014	2631	1338	1020	996	1347
35°	1837	2593	1163	892	902	1164
45°	970	1812	948	764	783	765
55°	639	1017	674	599	626	574
65°	412	556	416	410	443	408
75°	205	253	199	207	242	219
85°	41	52	40	45	53	52
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°	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9
2.5°	1654.1	1657.6	1652.0	1655.5	1647.0	1642.1	1634.4	1630.9	1614.0	1602.0	1597.8
5°	1822.8	1822.8	1824.3	1815.8	1806.0	1788.4	1765.2	1750.4	1733.5	1704.7	1689.9
7.5°	2035.2	2024.7	2017.6	2002.2	1988.8	1960.0	1934.7	1904.4	1865.0	1817.2	1791.9
10°	2250.4	2261.7	2254.6	2238.5	2204.0	2156.9	2119.6	2076.0	2014.8	1968.4	1902.3
12.5°	2519.1	2504.3	2493.1	2468.4	2430.5	2380.5	2322.9	2258.2	2179.4	2102.7	2028.9
15°	2720.2	2722.3	2721.6	2689.3	2652.0	2584.5	2531.0	2423.4	2323.6	2258.9	2136.5
17.5°	2890.4	2899.5	2889.0	2840.5	2807.4	2767.3	2699.1	2579.6	2488.8	2384.0	2249.0
20°	3028.2	3029.6	3012.8	2976.9	2938.9	2893.9	2803.9	2712.5	2623.9	2483.2	2354.5
22.5°	3064.8	3068.3	3064.8	3049.3	3018.4	2970.6	2903.1	2818.7	2706.8	2557.0	2437.5
25°	3014.2	3012.1	3024.0	3014.9	3013.5	2998.0	2953.7	2885.5	2775.1	2630.9	2479.0
27.5°	2836.9	2822.2	2852.4	2891.8	2897.4	2922.0	2922.7	2891.1	2811.6	2688.6	2523.3
30°	2530.3	2544.4	2559.2	2641.4	2687.2	2751.1	2806.7	2827.1	2796.9	2706.1	2551.4
32.5°	2197.0	2242.0	2283.5	2340.4	2407.3	2515.6	2603.5	2680.8	2713.9	2673.8	2551.4
35°	1836.9	1860.8	1926.2	1998.7	2095.0	2179.4	2353.8	2466.3	2566.9	2592.9	2519.1
37.5°	1555.6	1577.4	1599.9	1656.2	1764.5	1905.1	2049.3	2197.0	2346.1	2453.0	2448.7
40°	1306.7	1311.6	1331.3	1379.8	1469.8	1595.0	1746.2	1924.1	2117.5	2263.1	2324.3
42.5°	1115.4	1115.4	1140.0	1196.2	1248.3	1339.7	1486.0	1642.8	1854.5	2041.6	2172.4
45°	970.5	971.9	991.6	1031.7	1072.5	1144.2	1252.5	1400.2	1618.2	1811.6	1993.7
47.5°	852.3	865.7	877.0	898.1	938.9	1002.1	1080.9	1206.8	1362.2	1573.2	1785.6
50°	776.4	779.2	787.6	800.3	832.0	873.4	941.7	1037.3	1175.1	1362.2	1576.7
52.5°	701.9	701.9	710.3	725.8	744.0	777.8	827.0	906.5	1009.9	1179.4	1372.1
55°	638.6	640.7	642.1	654.7	670.2	695.5	734.2	786.2	881.2	1016.9	1185.0
57.5°	576.7	584.4	582.3	592.1	603.4	621.7	649.1	694.1	766.6	869.9	1021.1
60°	524.6	523.2	526.7	531.0	538.7	551.4	576.7	609.7	670.2	756.7	880.5
62.5°	465.6	464.2	468.4	473.3	480.3	490.9	509.2	534.5	582.3	647.0	754.6
65°	412.1	410.7	412.8	415.6	423.4	431.8	445.9	467.0	498.6	555.6	637.9
67.5°	358.7	358.7	360.1	362.9	367.8	374.1	385.4	398.0	429.7	467.7	532.4
70°	305.2	305.9	305.9	308.7	313.0	317.9	327.0	338.3	358.0	391.7	443.8
72.5°	258.8	258.8	257.4	258.8	261.6	263.7	269.3	279.9	294.7	319.3	358.7
75°	205.4	208.9	208.2	207.5	209.6	213.1	218.0	226.4	235.6	253.2	282.7
77.5°	157.5	159.6	159.6	160.3	162.5	165.3	166.7	175.1	183.6	194.1	215.9
80°	115.3	116.7	115.3	116.0	117.4	120.3	123.1	124.5	130.8	139.9	150.5
82.5°	77.4	75.2	78.1	77.4	78.8	79.5	80.9	81.6	85.8	91.4	98.5
85°	40.8	44.3	43.6	45.0	43.6	44.3	45.0	47.8	48.5	52.0	56.3
87.5°	15.5	16.9	16.9	16.9	16.9	16.9	18.3	19.0	20.4	21.1	22.5
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°	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9
2.5°	1600.6	1594.3	1585.1	1575.3	1564.8	1554.2	1549.3	1542.9	1530.3	1517.6	1507.8
5°	1678.0	1660.4	1636.5	1618.9	1593.6	1569.7	1550.7	1537.3	1516.9	1492.3	1476.1
7.5°	1764.5	1732.8	1694.9	1656.2	1618.2	1582.3	1552.8	1527.5	1495.8	1465.6	1441.0
10°	1866.4	1805.3	1752.5	1696.3	1640.0	1589.4	1547.2	1510.6	1469.8	1433.2	1403.0
12.5°	1956.5	1885.4	1812.3	1732.8	1656.9	1591.5	1537.3	1489.5	1440.3	1398.1	1367.1
15°	2055.6	1955.8	1854.5	1764.5	1672.3	1592.2	1521.1	1465.6	1409.3	1361.5	1325.6
17.5°	2169.6	2035.9	1908.6	1779.2	1697.7	1594.3	1507.1	1433.9	1376.3	1328.5	1282.0
20°	2237.1	2104.1	1948.0	1815.1	1680.1	1573.9	1476.8	1403.0	1335.5	1280.6	1242.7
22.5°	2273.6	2133.7	1970.5	1834.1	1676.6	1557.7	1454.3	1367.1	1294.7	1239.8	1196.9
25°	2325.0	2133.7	1982.5	1818.6	1682.2	1538.7	1422.0	1338.3	1262.3	1199.1	1154.0
27.5°	2348.2	2152.7	1983.9	1789.1	1648.4	1502.9	1384.7	1296.1	1211.7	1149.8	1111.1
30°	2367.2	2156.2	1955.8	1765.9	1609.1	1462.8	1347.4	1248.3	1169.5	1110.4	1069.7
32.5°	2368.6	2147.0	1917.8	1722.3	1556.3	1415.7	1303.1	1209.6	1127.3	1064.7	1024.6
35°	2355.9	2124.5	1874.2	1655.5	1495.1	1367.1	1254.6	1163.2	1079.5	1019.7	978.9
37.5°	2323.6	2099.2	1833.4	1592.9	1422.7	1298.2	1202.6	1115.4	1032.4	972.6	938.9
40°	2254.6	2058.4	1779.9	1526.1	1349.6	1225.1	1141.4	1061.2	987.4	925.5	891.7
42.5°	2163.2	1997.3	1715.2	1455.0	1268.0	1147.7	1073.9	1009.2	933.9	880.5	846.0
45°	2033.8	1914.3	1650.5	1380.5	1187.1	1069.0	1001.4	948.0	883.3	829.8	799.6
47.5°	1887.5	1814.4	1566.9	1296.8	1102.0	990.9	926.9	884.0	829.1	783.4	753.2
50°	1723.0	1695.6	1474.7	1212.4	1022.5	908.6	849.5	815.8	769.4	732.8	706.8
52.5°	1544.4	1561.2	1377.7	1126.6	945.9	830.5	774.3	743.3	713.8	682.9	658.3
55°	1362.9	1403.0	1260.2	1033.1	858.0	757.4	702.6	674.4	652.6	626.6	609.0
57.5°	1192.7	1255.3	1138.6	933.2	777.1	680.8	628.7	604.1	587.9	573.9	557.7
60°	1027.5	1099.9	1013.4	839.7	696.2	608.3	561.9	538.0	530.3	519.7	504.2
62.5°	881.2	955.0	890.3	743.3	614.6	539.4	497.2	477.5	466.3	462.7	453.6
65°	744.0	813.0	763.7	642.8	537.3	470.5	433.2	415.6	409.3	408.6	401.6
67.5°	625.2	692.0	647.0	545.0	455.7	401.6	373.4	359.4	353.0	353.7	348.8
70°	515.5	562.6	535.9	455.7	386.8	339.0	317.2	301.7	296.8	296.8	295.4
72.5°	413.5	450.8	430.4	369.2	315.1	278.5	259.5	250.4	246.1	245.4	246.1
75°	323.5	355.8	337.6	289.7	249.0	221.5	205.4	199.0	196.9	195.5	196.2
77.5°	241.9	262.3	251.1	220.1	186.4	167.4	159.6	153.3	151.2	151.9	153.3
80°	170.9	182.1	175.8	156.1	133.6	121.0	115.3	110.4	108.3	110.4	110.4
82.5°	108.3	116.7	111.1	98.5	87.2	78.8	73.1	71.7	71.0	69.6	71.7
85°	59.1	63.3	60.5	56.3	48.5	45.0	40.8	40.1	40.1	40.1	40.1
87.5°	23.2	26.0	22.5	22.5	21.1	17.6	17.6	16.9	16.2	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9	1535.9
2.5°	1503.6	1494.4	1488.8	1481.1	1471.9	1460.0	1455.0	1460.0	1457.2	1452.2	1454.3
5°	1462.1	1450.1	1434.6	1422.0	1407.9	1390.3	1384.7	1381.9	1377.7	1375.6	1372.1
7.5°	1421.3	1403.7	1384.7	1367.1	1346.7	1331.3	1324.2	1319.3	1317.9	1307.4	1303.1
10°	1379.1	1357.3	1338.3	1314.4	1296.8	1276.4	1268.0	1262.3	1256.0	1249.0	1244.1
12.5°	1334.8	1313.0	1289.1	1266.6	1249.0	1226.5	1215.2	1208.9	1204.0	1199.1	1193.4
15°	1296.1	1274.3	1241.3	1224.4	1203.3	1180.8	1173.7	1159.7	1161.1	1152.6	1147.0
17.5°	1255.3	1223.0	1199.8	1174.4	1159.0	1142.8	1129.4	1114.7	1112.6	1106.2	1104.1
20°	1209.6	1175.8	1159.7	1133.7	1112.6	1096.4	1084.4	1083.0	1078.8	1069.7	1066.1
22.5°	1164.6	1137.2	1114.7	1090.8	1071.8	1050.7	1045.0	1047.2	1039.4	1037.3	1029.6
25°	1123.8	1099.9	1071.8	1049.3	1033.8	1020.4	1012.7	1009.9	1007.1	1005.0	1001.4
27.5°	1080.2	1054.9	1031.0	1012.7	997.9	988.8	983.9	977.5	976.8	976.8	975.4
30°	1036.6	1014.1	997.9	974.7	961.4	955.7	951.5	949.4	951.5	951.5	952.2
32.5°	996.5	974.7	955.7	939.6	926.2	922.0	921.3	921.3	924.1	924.1	926.2
35°	955.0	933.2	915.6	904.4	893.1	892.4	893.1	894.5	898.1	898.8	901.6
37.5°	910.0	893.1	879.8	865.7	862.9	864.3	865.7	867.1	868.5	874.2	874.2
40°	868.5	855.9	842.5	833.4	828.4	832.0	834.1	834.8	839.0	842.5	845.3
42.5°	827.7	815.8	805.2	797.5	795.4	798.2	800.3	802.4	806.6	809.5	814.4
45°	782.0	774.3	765.1	758.8	759.5	763.7	763.7	770.8	773.6	775.0	778.5
47.5°	739.8	731.4	725.1	722.2	721.5	725.1	727.2	732.8	734.2	739.1	741.9
50°	694.8	688.5	683.6	680.1	680.8	682.2	687.1	692.7	694.1	699.7	704.7
52.5°	647.7	642.1	637.9	639.3	641.4	641.4	646.3	649.8	653.3	657.5	662.5
55°	601.3	593.6	594.3	592.1	594.3	599.2	601.3	606.9	609.7	611.8	618.9
57.5°	550.7	549.2	547.1	545.0	549.2	551.4	554.9	558.4	563.3	566.1	571.0
60°	498.6	496.5	496.5	499.3	500.7	504.9	510.6	512.7	514.1	519.7	526.0
62.5°	450.8	448.7	448.0	452.2	452.2	456.4	458.5	462.0	467.7	469.8	478.2
65°	399.5	398.0	398.0	401.6	402.3	410.0	410.0	410.0	413.5	421.3	425.5
67.5°	346.0	346.7	348.8	350.9	353.7	355.8	356.6	360.8	366.4	371.3	379.8
70°	292.6	296.1	300.3	299.6	301.7	305.2	305.9	310.1	315.1	321.4	331.2
72.5°	244.7	246.8	251.1	251.1	253.9	256.0	259.5	262.3	268.6	274.3	278.5
75°	196.9	197.6	201.1	203.2	205.4	206.8	210.3	215.2	218.7	223.6	230.0
77.5°	154.7	153.3	156.1	156.8	158.2	161.0	163.9	168.8	171.6	177.2	179.3
80°	109.7	112.5	113.2	113.9	115.3	118.9	121.0	123.1	125.9	130.8	132.9
82.5°	72.4	73.8	76.0	76.7	78.1	78.8	79.5	83.0	85.1	86.5	93.5
85°	42.2	44.3	42.9	42.9	44.3	45.0	47.8	47.8	50.6	49.2	52.7
87.5°	18.3	17.6	17.6	18.3	17.6	16.9	19.0	19.0	18.3	19.0	19.0
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: P243330

CATALOG NUMBER: S123DRP-H1165D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1535.9	1535.9	1535.9	1535.9
2.5°	1450.8	1450.8	1445.2	1447.3
5°	1365.0	1367.8	1360.8	1358.7
7.5°	1301.7	1298.9	1294.0	1294.0
10°	1239.8	1237.0	1234.9	1234.9
12.5°	1186.4	1183.6	1179.4	1182.9
15°	1138.6	1139.3	1136.5	1136.5
17.5°	1102.0	1095.7	1093.6	1092.9
20°	1058.4	1059.8	1057.0	1052.1
22.5°	1031.0	1027.5	1024.6	1023.9
25°	1002.8	999.3	998.6	995.8
27.5°	974.7	975.4	973.3	973.3
30°	951.5	953.6	951.5	952.2
32.5°	928.3	928.3	928.3	925.5
35°	903.0	903.7	903.0	901.6
37.5°	877.0	877.0	877.7	879.1
40°	848.1	848.1	849.5	849.5
42.5°	813.7	817.2	819.3	815.8
45°	782.7	783.4	784.1	783.4
47.5°	748.3	746.2	746.9	748.3
50°	705.4	710.3	710.3	706.1
52.5°	663.9	665.3	668.1	668.1
55°	623.1	623.8	624.5	625.9
57.5°	576.7	577.4	577.4	576.7
60°	530.3	534.5	533.8	534.5
62.5°	480.3	486.7	488.8	488.1
65°	433.2	434.6	438.1	443.1
67.5°	383.3	386.8	392.4	391.0
70°	334.0	339.0	340.4	343.2
72.5°	284.8	291.1	292.6	294.0
75°	237.0	239.8	242.6	241.9
77.5°	185.0	189.2	194.1	191.3
80°	138.5	139.2	143.5	142.1
82.5°	91.4	97.0	97.0	94.2
85°	53.4	53.4	53.4	53.4
87.5°	18.3	17.6	19.0	18.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243330
 CATALOG NUMBER: S123DRP-H1165D835-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	20.56	22.12	20.92	22.43	22.75	21.09	22.65	21.45	22.96	23.28
	3H	22.08	23.48	22.45	23.81	24.17	22.43	23.83	22.80	24.16	24.52
	4H	22.62	23.94	23.02	24.29	24.67	22.88	24.20	23.28	24.55	24.93
	6H	22.98	24.20	23.40	24.57	24.96	23.18	24.40	23.60	24.77	25.16
	8H	23.08	24.24	23.51	24.63	25.03	23.26	24.42	23.68	24.81	25.21
	12H	23.13	24.25	23.56	24.63	25.06	23.30	24.41	23.73	24.79	25.22
4H	2H	21.72	23.04	22.12	23.39	23.76	21.88	23.20	22.28	23.55	23.92
	3H	23.28	24.38	23.69	24.77	25.18	23.67	24.77	24.08	25.17	25.57
	4H	23.88	24.86	24.31	25.28	25.72	24.23	25.22	24.67	25.64	26.07
	6H	24.30	25.16	24.76	25.60	26.06	24.60	25.46	25.06	25.90	26.36
	8H	24.42	25.23	24.88	25.67	26.14	24.69	25.50	25.15	25.94	26.41
	12H	24.50	25.22	24.98	25.69	26.16	24.74	25.47	25.23	25.94	26.41
8H	4H	24.34	25.14	24.80	25.59	26.05	24.54	25.34	25.00	25.79	26.25
	6H	24.84	25.50	25.33	25.99	26.47	25.05	25.71	25.54	26.20	26.68
	8H	25.00	25.60	25.51	26.11	26.59	25.19	25.79	25.71	26.30	26.79
	12H	25.12	25.65	25.63	26.14	26.70	25.29	25.82	25.80	26.31	26.88
12H	4H	24.39	25.11	24.87	25.58	26.05	24.55	25.27	25.03	25.75	26.22
	6H	24.91	25.51	25.42	26.01	26.50	25.08	25.68	25.59	26.19	26.67
	8H	25.12	25.64	25.62	26.13	26.70	25.28	25.81	25.79	26.30	26.87