

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: P243323

Luminaire Tested: S123DRP-H775D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243323
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-H775D830-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

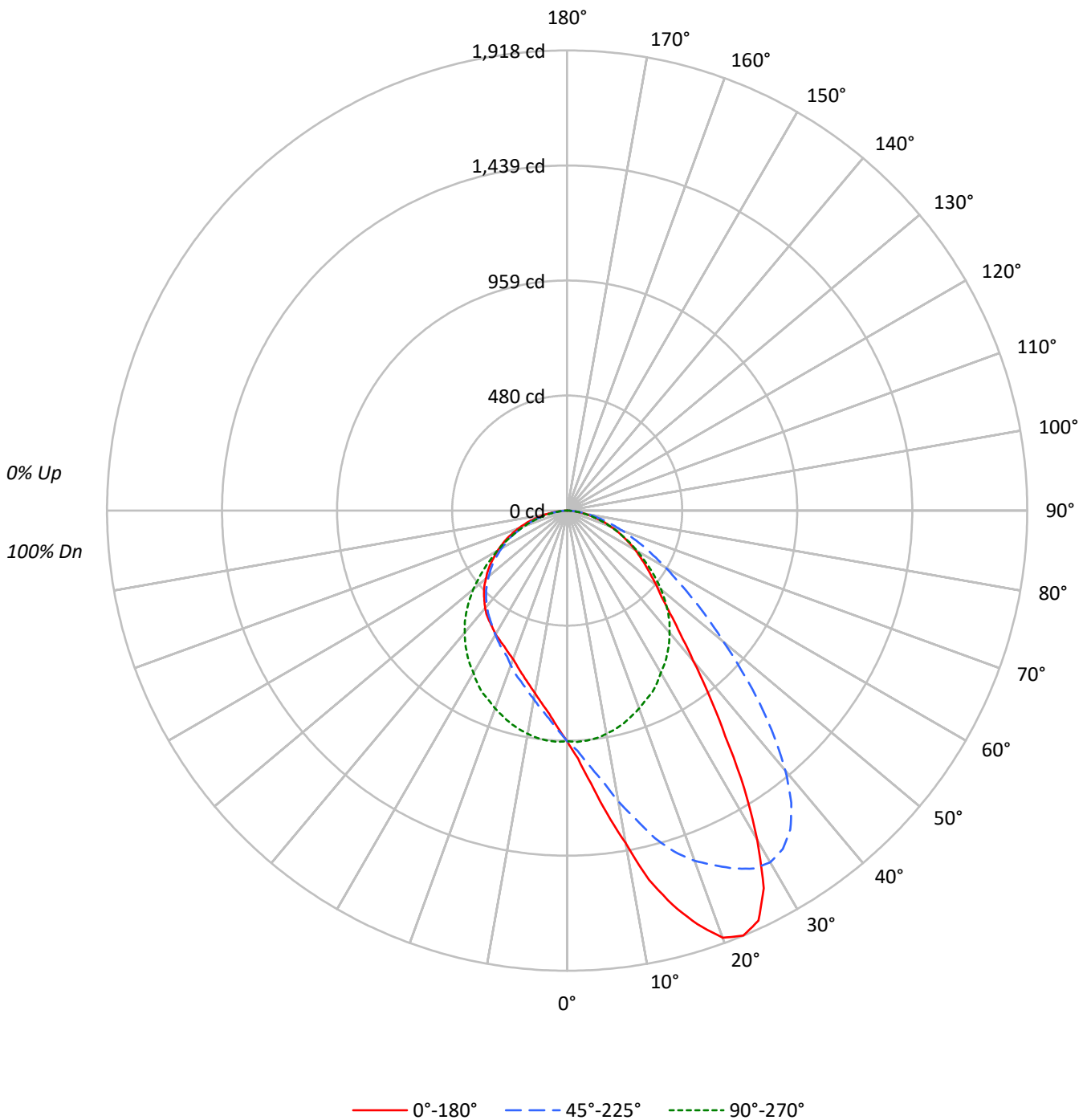
Lumens per Lamp: N/A
Luminaire Lumens: 2896.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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°	11647	11647	11647	11647	11647
5°	13876	12977	11703	10585	10344
10°	17330	15158	11632	9829	9509
15°	21357	17734	11506	9270	8922
20°	24439	20040	11323	8848	8490
25°	25221	22014	11198	8538	8332
30°	22158	23697	10931	8368	8338
35°	17005	24004	10768	8261	8347
40°	12935	22404	10505	8236	8410
45°	10409	19429	10167	8190	8401
50°	9159	16072	9625	8048	8329
55°	8443	13445	8916	7923	8276
60°	7956	11476	8160	7658	8107
65°	7394	9970	7457	7357	7950
70°	6769	8686	6691	6769	7609
75°	6018	7418	5831	6060	7090
80°	5040	6115	4823	5193	6206
85°	3546	4534	3491	3922	4645

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 21811 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.3
10°-20°	303.5	10.5
20°-30°	501.3	17.3
30°-40°	573.8	19.8
40°-50°	519.9	18.0
50°-60°	420.1	14.5
60°-70°	292.7	10.1
70°-80°	153.5	5.3
80°-90°	36.6	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°	899.4	31.1
0°-40°	1473.2	50.9
0°-60°	2413.2	83.3
0°-90°	2896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	961	961	961	961	961	
5°	1140	1066	962	870	850	117
15°	1702	1413	917	739	711	484
25°	1886	1646	837	638	623	843
35°	1149	1622	728	558	564	728
45°	607	1133	593	478	490	479
55°	400	636	422	375	392	359
65°	258	348	260	256	277	256
75°	128	158	124	129	151	137
85°	26	33	25	28	33	33
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°	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9
2.5°	1034.8	1037.0	1033.5	1035.7	1030.4	1027.4	1022.5	1020.3	1009.8	1002.3	999.6
5°	1140.4	1140.4	1141.3	1136.0	1129.9	1118.9	1104.4	1095.1	1084.6	1066.5	1057.3
7.5°	1273.3	1266.7	1262.3	1252.6	1244.3	1226.2	1210.4	1191.5	1166.8	1136.9	1121.1
10°	1408.0	1415.0	1410.6	1400.5	1378.9	1349.4	1326.1	1298.8	1260.6	1231.5	1190.2
12.5°	1576.0	1566.8	1559.7	1544.3	1520.6	1489.4	1453.3	1412.8	1363.5	1315.6	1269.4
15°	1701.9	1703.2	1702.7	1682.5	1659.2	1616.9	1583.5	1516.2	1453.7	1413.2	1336.7
17.5°	1808.3	1814.1	1807.5	1777.1	1756.4	1731.3	1688.7	1613.9	1557.1	1491.6	1407.1
20°	1894.6	1895.5	1884.9	1862.5	1838.7	1810.5	1754.2	1697.0	1641.6	1553.6	1473.1
22.5°	1917.5	1919.7	1917.5	1907.8	1888.4	1858.5	1816.3	1763.5	1693.5	1599.8	1525.0
25°	1885.8	1884.5	1891.9	1886.2	1885.3	1875.7	1847.9	1805.3	1736.2	1646.0	1550.9
27.5°	1774.9	1765.7	1784.6	1809.2	1812.7	1828.1	1828.6	1808.8	1759.1	1682.1	1578.7
30°	1583.1	1591.9	1601.1	1652.6	1681.2	1721.2	1756.0	1768.7	1749.8	1693.1	1596.3
32.5°	1374.5	1402.7	1428.6	1464.3	1506.1	1573.8	1628.8	1677.2	1697.9	1672.8	1596.3
35°	1149.2	1164.2	1205.1	1250.4	1310.7	1363.5	1472.6	1543.0	1605.9	1622.2	1576.0
37.5°	973.2	986.9	1001.0	1036.2	1103.9	1191.9	1282.1	1374.5	1467.8	1534.7	1532.0
40°	817.5	820.6	832.9	863.3	919.6	997.9	1092.5	1203.8	1324.8	1415.9	1454.2
42.5°	697.8	697.8	713.2	748.4	781.0	838.2	929.7	1027.8	1160.2	1277.3	1359.1
45°	607.2	608.1	620.4	645.5	671.0	715.9	783.6	876.0	1012.4	1133.4	1247.4
47.5°	533.3	541.6	548.7	561.9	587.4	627.0	676.3	755.0	852.3	984.2	1117.1
50°	485.7	487.5	492.8	500.7	520.5	546.5	589.1	649.0	735.2	852.3	986.4
52.5°	439.1	439.1	444.4	454.1	465.5	486.6	517.4	567.1	631.8	737.9	858.4
55°	399.5	400.8	401.7	409.6	419.3	435.1	459.3	491.9	551.3	636.2	741.4
57.5°	360.8	365.6	364.3	370.5	377.5	388.9	406.1	434.3	479.6	544.3	638.9
60°	328.2	327.3	329.5	332.2	337.0	344.9	360.8	381.5	419.3	473.4	550.9
62.5°	291.3	290.4	293.0	296.1	300.5	307.1	318.5	334.4	364.3	404.8	472.1
65°	257.8	257.0	258.3	260.0	264.9	270.2	279.0	292.2	311.9	347.6	399.1
67.5°	224.4	224.4	225.3	227.0	230.1	234.1	241.1	249.0	268.8	292.6	333.1
70°	191.0	191.4	191.4	193.2	195.8	198.9	204.6	211.6	224.0	245.1	277.6
72.5°	161.9	161.9	161.0	161.9	163.7	165.0	168.5	175.1	184.4	199.8	224.4
75°	128.5	130.7	130.2	129.8	131.1	133.3	136.4	141.7	147.4	158.4	176.9
77.5°	98.6	99.9	99.9	100.3	101.6	103.4	104.3	109.6	114.8	121.4	135.1
80°	72.2	73.0	72.2	72.6	73.5	75.2	77.0	77.9	81.8	87.6	94.2
82.5°	48.4	47.1	48.8	48.4	49.3	49.7	50.6	51.0	53.7	57.2	61.6
85°	25.5	27.7	27.3	28.2	27.3	27.7	28.2	29.9	30.4	32.6	35.2
87.5°	9.7	10.6	10.6	10.6	10.6	10.6	11.4	11.9	12.8	13.2	14.1
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°	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9
2.5°	1001.4	997.4	991.7	985.6	979.0	972.4	969.3	965.3	957.4	949.5	943.3
5°	1049.8	1038.8	1023.8	1012.8	997.0	982.0	970.2	961.8	949.0	933.6	923.5
7.5°	1103.9	1084.1	1060.4	1036.2	1012.4	990.0	971.5	955.6	935.8	916.9	901.5
10°	1167.7	1129.4	1096.4	1061.2	1026.0	994.4	968.0	945.1	919.6	896.7	877.8
12.5°	1224.0	1179.6	1133.8	1084.1	1036.6	995.7	961.8	931.9	901.1	874.7	855.3
15°	1286.1	1223.6	1160.2	1103.9	1046.3	996.1	951.7	916.9	881.7	851.8	829.4
17.5°	1357.4	1273.8	1194.1	1113.2	1062.1	997.4	942.9	897.1	861.1	831.1	802.1
20°	1399.6	1316.4	1218.8	1135.6	1051.1	984.7	924.0	877.8	835.5	801.2	777.5
22.5°	1422.5	1334.9	1232.8	1147.5	1048.9	974.6	909.9	855.3	810.0	775.7	748.9
25°	1454.6	1334.9	1240.3	1137.8	1052.4	962.7	889.7	837.3	789.8	750.2	722.0
27.5°	1469.1	1346.8	1241.2	1119.3	1031.3	940.2	866.3	810.9	758.1	719.4	695.2
30°	1481.0	1349.0	1223.6	1104.8	1006.7	915.2	843.0	781.0	731.7	694.7	669.2
32.5°	1481.9	1343.3	1199.8	1077.5	973.7	885.7	815.3	756.8	705.3	666.1	641.1
35°	1474.0	1329.2	1172.6	1035.7	935.4	855.3	784.9	727.7	675.4	638.0	612.5
37.5°	1453.7	1313.4	1147.0	996.6	890.1	812.2	752.4	697.8	645.9	608.5	587.4
40°	1410.6	1287.8	1113.6	954.8	844.3	766.5	714.1	663.9	617.7	579.0	557.9
42.5°	1353.4	1249.6	1073.1	910.3	793.3	718.1	671.9	631.4	584.3	550.9	529.3
45°	1272.4	1197.6	1032.6	863.7	742.7	668.8	626.5	593.1	552.6	519.2	500.3
47.5°	1180.9	1135.2	980.3	811.3	689.5	619.9	579.9	553.1	518.7	490.1	471.2
50°	1078.0	1060.8	922.6	758.5	639.7	568.5	531.5	510.4	481.3	458.5	442.2
52.5°	966.2	976.8	861.9	704.9	591.8	519.6	484.4	465.1	446.6	427.2	411.8
55°	852.7	877.8	788.5	646.3	536.8	473.9	439.5	421.9	408.3	392.0	381.0
57.5°	746.2	785.4	712.3	583.9	486.2	425.9	393.3	377.9	367.8	359.0	348.9
60°	642.8	688.1	634.0	525.3	435.6	380.6	351.5	336.6	331.7	325.1	315.5
62.5°	551.3	597.5	557.0	465.1	384.5	337.5	311.1	298.8	291.7	289.5	283.8
65°	465.5	508.6	477.8	402.1	336.1	294.4	271.0	260.0	256.1	255.6	251.2
67.5°	391.1	432.9	404.8	341.0	285.1	251.2	233.6	224.8	220.9	221.3	218.2
70°	322.5	352.0	335.3	285.1	242.0	212.1	198.4	188.8	185.7	185.7	184.8
72.5°	258.7	282.0	269.3	231.0	197.1	174.2	162.4	156.6	154.0	153.6	154.0
75°	202.4	222.6	211.2	181.3	155.8	138.6	128.5	124.5	123.2	122.3	122.8
77.5°	151.4	164.1	157.1	137.7	116.6	104.7	99.9	95.9	94.6	95.0	95.9
80°	106.9	114.0	110.0	97.7	83.6	75.7	72.2	69.1	67.8	69.1	69.1
82.5°	67.8	73.0	69.5	61.6	54.6	49.3	45.8	44.9	44.4	43.6	44.9
85°	37.0	39.6	37.8	35.2	30.4	28.2	25.5	25.1	25.1	25.1	25.1
87.5°	14.5	16.3	14.1	14.1	13.2	11.0	11.0	10.6	10.1	10.6	10.6
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°	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9
2.5°	940.7	935.0	931.4	926.6	920.9	913.4	910.3	913.4	911.6	908.6	909.9
5°	914.7	907.2	897.6	889.7	880.9	869.9	866.3	864.6	861.9	860.6	858.4
7.5°	889.2	878.2	866.3	855.3	842.6	832.9	828.5	825.4	824.5	817.9	815.3
10°	862.8	849.2	837.3	822.3	811.3	798.6	793.3	789.8	785.8	781.4	778.3
12.5°	835.1	821.5	806.5	792.4	781.4	767.3	760.3	756.3	753.3	750.2	746.7
15°	810.9	797.3	776.6	766.0	752.8	738.7	734.3	725.5	726.4	721.1	717.6
17.5°	785.4	765.1	750.6	734.8	725.1	715.0	706.6	697.4	696.1	692.1	690.8
20°	756.8	735.7	725.5	709.3	696.1	685.9	678.5	677.6	674.9	669.2	667.0
22.5°	728.6	711.5	697.4	682.4	670.5	657.3	653.8	655.1	650.3	649.0	644.1
25°	703.1	688.1	670.5	656.5	646.8	638.4	633.6	631.8	630.1	628.7	626.5
27.5°	675.8	660.0	645.0	633.6	624.3	618.6	615.5	611.6	611.1	611.1	610.3
30°	648.5	634.5	624.3	609.8	601.5	597.9	595.3	594.0	595.3	595.3	595.7
32.5°	623.5	609.8	597.9	587.8	579.5	576.8	576.4	576.4	578.1	578.1	579.5
35°	597.5	583.9	572.9	565.8	558.8	558.3	558.8	559.7	561.9	562.3	564.1
37.5°	569.3	558.8	550.4	541.6	539.9	540.7	541.6	542.5	543.4	546.9	546.9
40°	543.4	535.5	527.1	521.4	518.3	520.5	521.8	522.3	524.9	527.1	528.9
42.5°	517.9	510.4	503.8	498.9	497.6	499.4	500.7	502.0	504.7	506.4	509.5
45°	489.3	484.4	478.7	474.7	475.2	477.8	477.8	482.2	484.0	484.9	487.1
47.5°	462.9	457.6	453.6	451.9	451.4	453.6	454.9	458.5	459.3	462.4	464.2
50°	434.7	430.7	427.7	425.5	425.9	426.8	429.9	433.4	434.3	437.8	440.9
52.5°	405.2	401.7	399.1	399.9	401.3	401.3	404.3	406.5	408.7	411.4	414.5
55°	376.2	371.3	371.8	370.5	371.8	374.9	376.2	379.7	381.5	382.8	387.2
57.5°	344.5	343.6	342.3	341.0	343.6	344.9	347.1	349.3	352.4	354.2	357.3
60°	311.9	310.6	310.6	312.4	313.3	315.9	319.4	320.7	321.6	325.1	329.1
62.5°	282.0	280.7	280.3	282.9	282.9	285.6	286.9	289.1	292.6	293.9	299.2
65°	249.9	249.0	249.0	251.2	251.7	256.5	256.5	256.5	258.7	263.6	266.2
67.5°	216.5	216.9	218.2	219.6	221.3	222.6	223.1	225.7	229.2	232.3	237.6
70°	183.0	185.2	187.9	187.4	188.8	191.0	191.4	194.0	197.1	201.1	207.2
72.5°	153.1	154.4	157.1	157.1	158.8	160.2	162.4	164.1	168.1	171.6	174.2
75°	123.2	123.6	125.8	127.2	128.5	129.4	131.6	134.6	136.8	139.9	143.9
77.5°	96.8	95.9	97.7	98.1	99.0	100.8	102.5	105.6	107.4	110.9	112.2
80°	68.6	70.4	70.8	71.3	72.2	74.4	75.7	77.0	78.8	81.8	83.2
82.5°	45.3	46.2	47.5	48.0	48.8	49.3	49.7	51.9	53.2	54.1	58.5
85°	26.4	27.7	26.8	26.8	27.7	28.2	29.9	29.9	31.7	30.8	33.0
87.5°	11.4	11.0	11.0	11.4	11.0	10.6	11.9	11.9	11.4	11.9	11.9
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: P243323

CATALOG NUMBER: S123DRP-H775D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	960.9	960.9	960.9	960.9
2.5°	907.7	907.7	904.2	905.5
5°	854.0	855.8	851.4	850.1
7.5°	814.4	812.7	809.6	809.6
10°	775.7	773.9	772.6	772.6
12.5°	742.3	740.5	737.9	740.1
15°	712.3	712.8	711.0	711.0
17.5°	689.5	685.5	684.2	683.7
20°	662.2	663.1	661.3	658.2
22.5°	645.0	642.8	641.1	640.6
25°	627.4	625.2	624.8	623.0
27.5°	609.8	610.3	608.9	608.9
30°	595.3	596.6	595.3	595.7
32.5°	580.8	580.8	580.8	579.0
35°	564.9	565.4	564.9	564.1
37.5°	548.7	548.7	549.1	550.0
40°	530.6	530.6	531.5	531.5
42.5°	509.1	511.3	512.6	510.4
45°	489.7	490.1	490.6	490.1
47.5°	468.1	466.8	467.3	468.1
50°	441.3	444.4	444.4	441.7
52.5°	415.3	416.2	418.0	418.0
55°	389.8	390.3	390.7	391.6
57.5°	360.8	361.2	361.2	360.8
60°	331.7	334.4	333.9	334.4
62.5°	300.5	304.5	305.8	305.3
65°	271.0	271.9	274.1	277.2
67.5°	239.8	242.0	245.5	244.6
70°	209.0	212.1	213.0	214.7
72.5°	178.2	182.2	183.0	183.9
75°	148.3	150.0	151.8	151.4
77.5°	115.7	118.4	121.4	119.7
80°	86.7	87.1	89.8	88.9
82.5°	57.2	60.7	60.7	59.0
85°	33.4	33.4	33.4	33.4
87.5°	11.4	11.0	11.9	11.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243323
 CATALOG NUMBER: S123DRP-H775D830-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	18.93	20.49	19.29	20.80	21.12	19.46	21.02	19.82	21.33	21.65
	3H	20.45	21.85	20.82	22.18	22.54	20.80	22.20	21.18	22.53	22.89
	4H	20.99	22.31	21.39	22.66	23.04	21.25	22.57	21.65	22.92	23.30
	6H	21.36	22.57	21.77	22.94	23.33	21.55	22.77	21.97	23.14	23.53
	8H	21.45	22.61	21.88	23.00	23.40	21.63	22.79	22.06	23.18	23.58
	12H	21.51	22.62	21.94	23.00	23.43	21.67	22.78	22.10	23.16	23.59
4H	2H	20.09	21.41	20.49	21.76	22.14	20.25	21.57	20.65	21.92	22.29
	3H	21.65	22.75	22.06	23.15	23.55	22.04	23.14	22.45	23.54	23.94
	4H	22.25	23.23	22.68	23.65	24.09	22.60	23.59	23.04	24.01	24.45
	6H	22.67	23.53	23.13	23.98	24.43	22.97	23.83	23.43	24.27	24.73
	8H	22.79	23.60	23.25	24.04	24.51	23.06	23.87	23.52	24.31	24.78
	12H	22.87	23.59	23.35	24.06	24.53	23.12	23.84	23.60	24.31	24.78
8H	4H	22.71	23.51	23.17	23.96	24.42	22.91	23.71	23.37	24.16	24.62
	6H	23.21	23.87	23.70	24.36	24.84	23.42	24.08	23.91	24.57	25.05
	8H	23.37	23.97	23.88	24.48	24.96	23.56	24.16	24.08	24.67	25.16
	12H	23.49	24.02	24.00	24.51	25.07	23.66	24.19	24.17	24.68	25.25
12H	4H	22.76	23.48	23.24	23.95	24.42	22.92	23.64	23.40	24.12	24.59
	6H	23.28	23.88	23.79	24.38	24.87	23.45	24.05	23.96	24.56	25.04
	8H	23.49	24.01	23.99	24.51	25.07	23.66	24.18	24.16	24.67	25.24