

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: P242468

Luminaire Tested: S123DRP-S775D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DRP-S775D835-X4F0-XX-UDD-A-W  
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

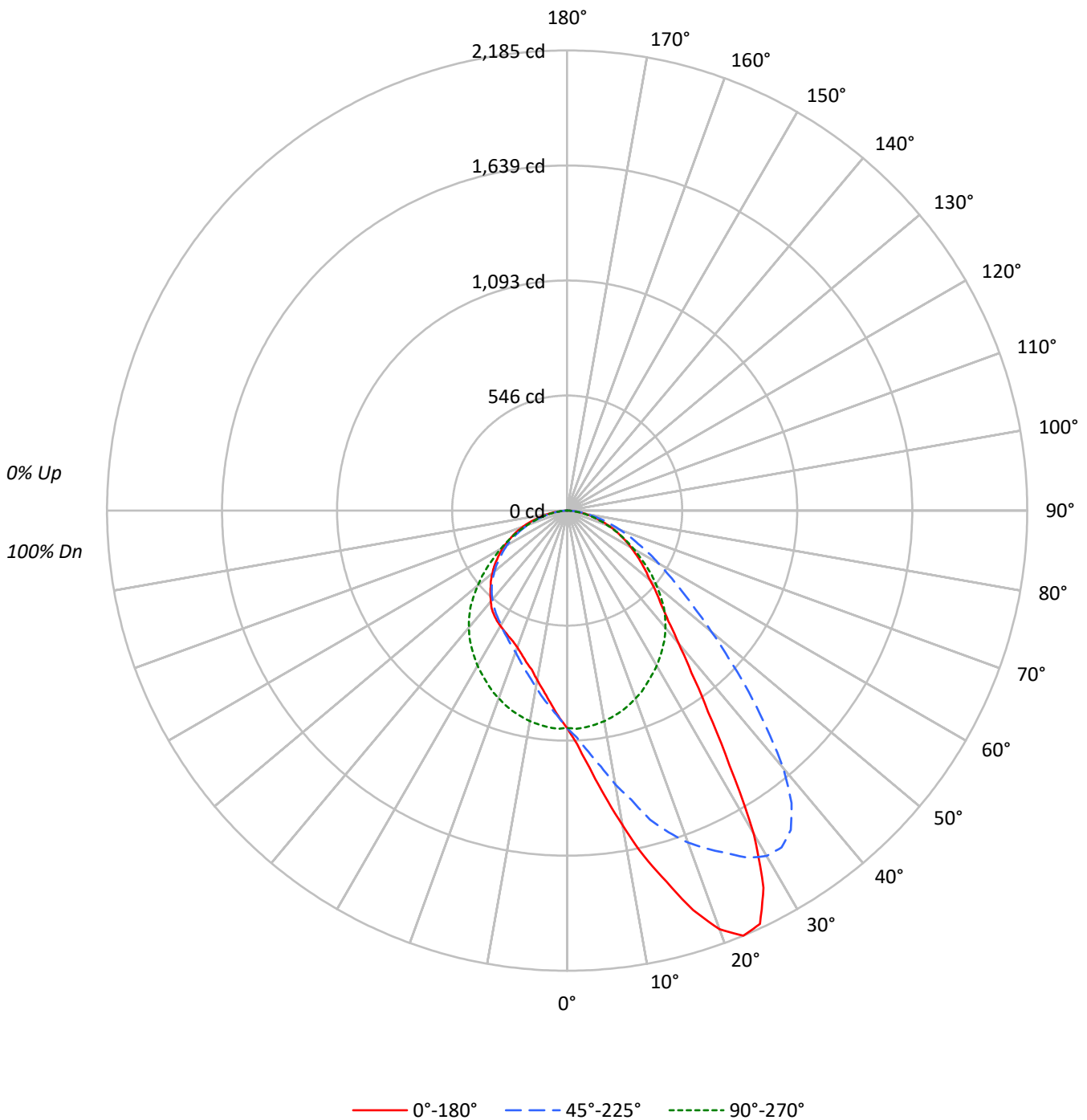
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3114.8 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5  
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74				72	
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64				62	
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56				53	
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49				47	
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43				41	
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38				36	
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35				33	
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31				29	
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28				27	

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

	0°	45°	90°	135°	180°
0°	12509	12509	12509	12509	12509
5°	14917	13980	12563	11377	11133
10°	18670	16252	12499	10480	10056
15°	22900	19060	12398	9776	9361
20°	27280	21643	12241	9223	8913
25°	28967	24006	12050	8954	8814
30°	24828	26508	11911	8783	8860
35°	17268	27388	11712	8753	8952
40°	13007	25284	11480	8734	8924
45°	10799	20913	11134	8674	8811
50°	9674	16877	10428	8505	8731
55°	9045	14000	9668	8263	8622
60°	8485	12109	8873	8024	8533
65°	7973	10655	8088	7615	8260
70°	7478	9516	7194	6999	7868
75°	6697	8243	6299	6252	7212
80°	5863	6771	5165	5061	6212
85°	4589	5285	3755	3685	4172

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 24717 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.5	3.3
10°-20°	326.0	10.5
20°-30°	548.5	17.6
30°-40°	619.9	19.9
40°-50°	555.3	17.8
50°-60°	448.2	14.4
60°-70°	312.3	10.0
70°-80°	163.9	5.3
80°-90°	39.3	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°	976.0	31.3
0°-40°	1595.9	51.2
0°-60°	2599.3	83.5
0°-90°	3114.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3114.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1032	1032	1032	1032	1032	
5°	1226	1149	1032	935	915	126
15°	1825	1519	988	779	746	527
25°	2166	1795	901	670	659	958
35°	1167	1851	792	592	605	753
45°	630	1220	650	506	514	497
55°	428	662	458	391	408	384
65°	278	372	282	266	288	277
75°	143	176	134	134	154	153
85°	33	38	27	26	30	40
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°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	1111.0	1110.0	1107.5	1109.5	1105.5	1100.0	1099.5	1094.5	1080.0	1079.0	1075.0
5°	1226.0	1222.0	1221.5	1221.0	1214.0	1204.5	1186.5	1185.0	1161.0	1149.0	1134.5
7.5°	1364.9	1363.4	1359.4	1354.9	1331.4	1319.9	1302.9	1280.9	1252.9	1226.0	1209.0
10°	1516.9	1533.4	1512.9	1498.9	1485.9	1461.4	1432.9	1397.4	1361.9	1320.4	1288.9
12.5°	1679.9	1685.9	1685.9	1672.9	1650.9	1610.4	1554.4	1514.4	1482.4	1406.4	1379.4
15°	1824.9	1855.4	1835.9	1790.9	1791.9	1756.4	1690.4	1617.9	1579.4	1518.9	1436.4
17.5°	1988.9	1994.4	1988.4	1946.4	1925.9	1874.4	1814.9	1747.4	1674.9	1601.4	1515.9
20°	2114.9	2111.9	2094.4	2074.9	2031.9	1993.9	1927.4	1849.9	1749.9	1677.9	1582.4
22.5°	2184.9	2179.4	2173.4	2157.9	2123.9	2082.4	2024.4	1937.9	1843.9	1737.9	1623.9
25°	2165.9	2172.4	2173.4	2168.9	2156.4	2131.9	2084.9	2017.4	1922.4	1794.9	1679.9
27.5°	2018.9	2035.4	2056.4	2070.4	2092.9	2107.9	2092.9	2050.4	1972.4	1858.4	1716.9
30°	1773.9	1753.9	1803.4	1865.9	1908.4	1983.4	2025.4	2027.9	1988.4	1893.9	1756.9
32.5°	1433.9	1466.4	1481.4	1561.9	1667.4	1753.9	1847.9	1931.4	1950.9	1895.9	1780.4
35°	1167.0	1194.5	1234.4	1274.4	1374.4	1460.4	1607.4	1735.4	1837.4	1850.9	1777.4
37.5°	970.0	986.0	1010.5	1053.0	1121.5	1227.9	1344.4	1510.9	1651.4	1750.4	1740.4
40°	822.0	826.0	854.5	885.0	938.0	1022.0	1124.5	1267.4	1444.4	1597.9	1661.9
42.5°	711.0	721.0	729.0	758.0	797.5	855.5	949.0	1061.0	1219.5	1401.9	1542.4
45°	630.0	640.0	647.5	667.0	697.0	739.5	806.0	914.0	1037.5	1220.0	1388.4
47.5°	574.0	573.0	579.5	595.0	616.5	650.5	699.5	771.5	890.0	1042.5	1219.0
50°	513.0	521.0	523.0	534.5	550.5	574.0	613.0	672.0	765.0	895.0	1054.0
52.5°	470.0	471.0	477.5	485.0	498.5	515.5	548.0	591.0	659.0	765.0	908.0
55°	428.0	428.0	433.5	440.0	448.0	464.5	487.0	521.0	576.5	662.5	783.5
57.5°	389.0	391.0	396.0	397.5	404.5	416.0	435.5	462.5	505.0	574.5	674.5
60°	350.0	354.5	354.0	358.0	364.0	372.5	388.5	409.5	446.5	499.5	580.5
62.5°	316.0	314.5	314.5	319.5	325.5	333.5	342.5	360.0	390.0	435.5	501.5
65°	278.0	277.0	280.5	283.5	285.5	291.5	299.5	315.5	336.5	371.5	425.0
67.5°	245.0	242.0	244.5	245.5	249.0	254.0	262.0	272.0	289.0	318.5	361.5
70°	211.0	208.5	208.0	209.0	212.0	215.5	221.0	230.5	246.0	268.5	298.0
72.5°	176.0	174.5	174.5	177.0	178.0	180.0	183.5	192.0	203.5	219.0	246.0
75°	143.0	143.0	143.0	143.5	145.0	147.0	150.0	154.5	164.0	176.0	194.5
77.5°	113.0	113.5	112.5	112.0	114.5	115.5	116.0	121.0	126.5	135.5	150.0
80°	84.0	81.5	82.5	84.0	85.0	85.5	87.0	88.0	92.5	97.0	106.5
82.5°	57.0	55.0	55.0	57.5	57.5	58.0	59.5	61.0	62.0	66.0	70.0
85°	33.0	33.0	33.5	33.5	34.0	33.5	35.0	35.5	35.5	38.0	41.0
87.5°	15.0	14.0	14.5	15.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
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°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	1072.0	1068.0	1064.0	1057.0	1051.0	1042.5	1040.0	1037.0	1028.0	1020.0	1014.0
5°	1129.0	1117.0	1099.5	1083.5	1070.5	1053.0	1043.0	1032.5	1017.5	1004.0	993.0
7.5°	1183.5	1162.5	1138.0	1111.5	1086.0	1061.5	1042.0	1024.5	1005.0	986.0	971.5
10°	1250.9	1217.0	1179.0	1138.0	1103.0	1069.0	1040.5	1015.5	988.5	965.0	945.5
12.5°	1327.9	1273.4	1217.5	1165.5	1122.5	1072.0	1036.0	1002.5	971.0	941.5	919.0
15°	1385.4	1321.4	1259.4	1191.0	1128.0	1069.0	1028.0	988.0	952.5	923.5	895.5
17.5°	1442.4	1372.4	1293.4	1211.0	1137.0	1069.0	1013.0	970.0	926.5	891.5	864.5
20°	1489.4	1406.9	1314.4	1227.9	1144.0	1066.0	1003.0	949.0	901.0	863.5	832.0
22.5°	1529.9	1429.9	1333.4	1239.4	1143.5	1058.0	984.5	928.5	875.5	839.0	805.0
25°	1555.4	1439.9	1343.9	1235.4	1131.0	1044.0	964.0	901.0	849.0	806.0	771.5
27.5°	1579.4	1438.4	1329.9	1213.0	1116.0	1029.5	943.5	876.0	821.5	775.0	739.5
30°	1603.4	1440.9	1305.4	1190.0	1092.0	1002.0	919.0	851.0	793.0	745.5	712.5
32.5°	1618.4	1439.4	1282.9	1158.0	1054.0	977.0	892.5	821.5	761.5	715.0	683.5
35°	1622.4	1430.9	1256.4	1111.5	1012.5	935.0	864.5	791.5	729.0	685.5	649.5
37.5°	1613.9	1415.4	1227.4	1069.5	962.5	885.5	824.0	761.5	701.5	653.0	621.5
40°	1586.4	1400.4	1192.5	1024.5	910.5	837.0	786.5	725.5	666.5	621.0	592.0
42.5°	1533.9	1369.9	1154.0	974.5	856.5	783.0	737.5	689.0	634.0	592.0	563.0
45°	1441.9	1322.9	1115.5	924.5	803.5	727.5	686.5	649.5	599.0	557.5	532.5
47.5°	1324.4	1259.4	1060.0	872.0	748.0	674.5	631.5	601.0	561.5	528.0	503.5
50°	1201.0	1177.5	1003.5	818.0	692.5	621.0	580.0	553.0	526.5	493.0	471.0
52.5°	1058.5	1082.5	937.5	762.0	636.0	566.0	528.0	508.0	484.5	458.5	440.0
55°	926.5	979.0	859.5	698.0	580.0	513.0	476.5	457.5	443.5	423.0	406.5
57.5°	798.5	865.5	778.5	633.5	525.0	466.5	430.5	409.0	400.0	388.5	375.0
60°	687.0	753.0	690.5	568.5	469.5	414.5	383.5	366.0	357.0	349.5	338.5
62.5°	587.5	654.5	604.5	502.5	415.0	365.0	339.0	322.0	315.5	312.5	303.5
65°	498.0	555.5	520.5	433.5	363.5	318.5	294.0	282.0	275.5	274.0	268.0
67.5°	420.5	465.0	438.0	372.5	315.5	274.5	253.0	242.5	237.0	236.5	231.5
70°	344.5	385.5	366.0	308.0	260.5	230.0	212.0	203.0	200.0	199.5	197.0
72.5°	285.5	311.0	296.5	250.5	216.5	189.5	177.5	168.0	164.5	165.5	164.0
75°	220.0	241.5	232.5	199.0	169.5	151.5	140.5	134.5	131.5	133.0	131.0
77.5°	168.0	183.0	174.0	148.5	129.5	116.0	107.5	103.5	100.5	100.5	99.5
80°	119.5	127.5	123.0	109.0	94.0	83.0	76.5	74.0	72.5	72.0	71.5
82.5°	76.5	83.0	77.5	69.0	60.0	54.5	51.5	48.0	47.0	47.5	47.0
85°	43.0	45.5	43.5	37.5	33.5	30.5	28.5	27.0	26.0	26.5	25.5
87.5°	18.5	19.0	17.5	15.5	14.5	13.0	13.0	12.0	11.0	11.0	10.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0
2.5°	1010.5	1007.0	1002.0	994.5	988.5	979.0	979.0	980.5	980.5	980.0	979.0
5°	984.0	976.5	967.5	957.0	946.0	935.0	933.0	929.0	926.0	924.0	921.5
7.5°	957.0	944.5	932.0	917.5	905.0	894.5	887.0	880.5	876.5	872.0	868.5
10°	929.5	913.0	897.5	882.0	865.0	851.5	843.0	837.0	832.5	828.5	826.5
12.5°	897.0	877.5	860.0	845.5	826.5	812.5	804.5	802.5	797.0	787.5	782.5
15°	865.5	848.0	827.5	805.0	796.0	779.0	769.5	765.0	762.0	755.5	753.5
17.5°	839.5	816.0	792.5	776.0	759.5	746.0	740.5	734.5	730.5	724.5	723.0
20°	807.0	786.5	765.5	747.5	730.0	715.0	710.5	706.5	702.5	700.0	698.0
22.5°	774.0	753.5	737.0	720.5	701.5	693.0	688.0	683.5	681.0	679.5	677.5
25°	743.5	725.5	706.0	691.0	676.0	669.5	666.5	664.0	662.0	659.5	659.0
27.5°	716.5	696.5	680.0	665.5	654.5	649.0	645.5	644.0	644.0	645.0	645.5
30°	685.5	667.5	654.5	642.5	632.5	627.5	627.0	627.0	629.0	629.5	630.5
32.5°	657.0	643.0	630.0	618.5	611.5	608.5	611.0	611.0	612.5	614.0	616.0
35°	629.5	616.5	606.5	596.5	590.0	591.5	592.5	593.5	596.0	599.0	601.0
37.5°	603.5	591.5	581.0	573.0	569.0	572.0	574.5	576.5	579.5	582.0	584.0
40°	575.0	566.5	556.5	549.5	550.5	552.0	554.0	556.5	559.0	560.5	562.5
42.5°	548.5	539.5	532.5	527.0	528.5	530.5	531.5	532.5	535.5	538.5	539.5
45°	521.5	514.5	507.5	504.0	505.0	506.0	507.0	508.5	511.0	513.0	513.5
47.5°	491.0	486.0	481.5	477.5	479.5	479.0	480.5	483.5	484.5	485.5	488.5
50°	462.0	457.5	452.0	451.0	451.0	451.0	451.5	455.5	455.5	457.5	459.5
52.5°	430.0	427.5	424.5	422.5	421.5	421.5	424.0	425.5	426.5	429.5	431.5
55°	398.5	395.5	392.5	391.0	390.0	391.0	395.0	396.0	398.5	400.0	401.5
57.5°	365.5	363.5	361.0	360.0	360.0	360.5	363.5	366.0	366.5	371.5	373.5
60°	333.0	329.5	327.5	327.5	326.5	331.0	330.0	335.0	336.0	339.0	342.5
62.5°	299.5	294.5	294.0	294.0	296.0	296.5	298.5	300.0	303.0	307.0	309.5
65°	263.0	260.5	264.0	263.5	262.5	265.5	265.5	268.0	271.0	274.5	280.0
67.5°	229.0	227.0	228.0	227.5	229.0	231.0	232.5	234.5	238.0	242.0	245.5
70°	194.5	196.0	193.5	195.5	197.0	197.5	198.5	201.5	205.5	208.0	212.0
72.5°	161.0	160.5	161.5	162.0	163.5	164.5	165.5	169.0	173.5	175.5	178.5
75°	129.0	128.5	130.0	130.0	132.5	133.5	134.5	136.0	140.0	143.0	145.5
77.5°	100.0	100.5	100.0	102.0	101.0	101.5	104.5	106.0	106.5	113.0	114.0
80°	71.0	72.0	72.5	73.0	73.5	72.5	76.0	77.5	77.5	81.0	83.5
82.5°	46.0	46.5	48.0	48.5	48.5	50.0	49.5	50.5	52.0	53.0	56.5
85°	25.5	27.0	27.5	27.0	27.5	26.5	28.0	28.5	29.0	29.0	29.0
87.5°	10.0	10.5	10.0	10.5	10.0	10.5	10.5	9.5	9.5	11.0	9.0
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: P242468

CATALOG NUMBER: S123DRP-S775D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1032.0	1032.0	1032.0	1032.0
2.5°	975.5	975.0	978.5	976.0
5°	918.5	920.0	915.0	915.0
7.5°	867.0	865.0	865.5	862.0
10°	820.5	817.5	816.5	817.0
12.5°	782.0	782.0	774.0	774.0
15°	753.5	744.0	743.0	746.0
17.5°	722.0	716.5	717.0	716.0
20°	698.0	695.0	694.5	691.0
22.5°	676.0	675.5	676.0	672.0
25°	658.5	661.0	659.0	659.0
27.5°	646.5	646.5	645.0	645.0
30°	632.5	632.0	633.0	633.0
32.5°	618.5	619.5	619.5	620.0
35°	604.0	604.5	606.0	605.0
37.5°	585.0	587.5	587.0	588.0
40°	563.0	564.5	564.0	564.0
42.5°	540.5	541.5	540.0	539.0
45°	515.5	514.5	516.0	514.0
47.5°	488.0	488.5	489.0	491.0
50°	460.5	463.5	463.5	463.0
52.5°	433.5	434.5	437.0	437.0
55°	405.5	406.5	407.5	408.0
57.5°	377.0	376.5	378.5	379.0
60°	346.5	346.5	350.5	352.0
62.5°	314.0	316.0	320.0	317.0
65°	282.5	286.5	286.0	288.0
67.5°	249.5	252.0	256.0	256.0
70°	216.0	218.5	220.5	222.0
72.5°	183.5	184.5	190.0	187.0
75°	149.0	152.5	155.5	154.0
77.5°	116.0	120.5	121.5	120.0
80°	87.0	86.5	89.5	89.0
82.5°	58.0	57.5	58.5	59.0
85°	31.0	32.5	30.5	30.0
87.5°	9.0	9.0	8.5	8.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242468  
 CATALOG NUMBER: S123DRP-S775D835-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	19.16	20.72	19.53	21.03	21.35	19.72	21.27	20.08	21.58	21.90
	3H	20.71	22.11	21.09	22.44	22.80	21.05	22.45	21.43	22.77	23.14
	4H	21.27	22.59	21.67	22.94	23.31	21.51	22.82	21.91	23.17	23.55
	6H	21.67	22.89	22.09	23.25	23.65	21.80	23.02	22.21	23.38	23.77
	8H	21.79	22.94	22.21	23.33	23.73	21.88	23.03	22.30	23.42	23.82
	12H	21.85	22.96	22.28	23.34	23.77	21.91	23.02	22.34	23.40	23.83
4H	2H	20.31	21.63	20.71	21.98	22.35	20.48	21.79	20.88	22.14	22.52
	3H	21.91	23.00	22.32	23.40	23.80	22.28	23.38	22.69	23.78	24.18
	4H	22.53	23.52	22.96	23.93	24.37	22.85	23.84	23.28	24.25	24.69
	6H	23.00	23.86	23.46	24.30	24.76	23.21	24.07	23.67	24.51	24.97
	8H	23.14	23.94	23.60	24.39	24.85	23.30	24.11	23.77	24.55	25.02
	12H	23.23	23.95	23.72	24.43	24.90	23.36	24.07	23.84	24.55	25.02
8H	4H	23.01	23.82	23.48	24.26	24.73	23.15	23.96	23.62	24.40	24.87
	6H	23.56	24.23	24.06	24.72	25.19	23.66	24.33	24.16	24.82	25.29
	8H	23.75	24.35	24.26	24.85	25.34	23.81	24.41	24.32	24.91	25.40
	12H	23.89	24.42	24.40	24.91	25.48	23.91	24.43	24.42	24.92	25.49
12H	4H	23.07	23.78	23.55	24.26	24.73	23.17	23.88	23.65	24.36	24.83
	6H	23.64	24.24	24.15	24.74	25.23	23.70	24.29	24.21	24.80	25.29
	8H	23.88	24.40	24.39	24.89	25.46	23.90	24.43	24.41	24.92	25.48