

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: P242566

Luminaire Tested: S123RDRP-S775D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S775D830-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

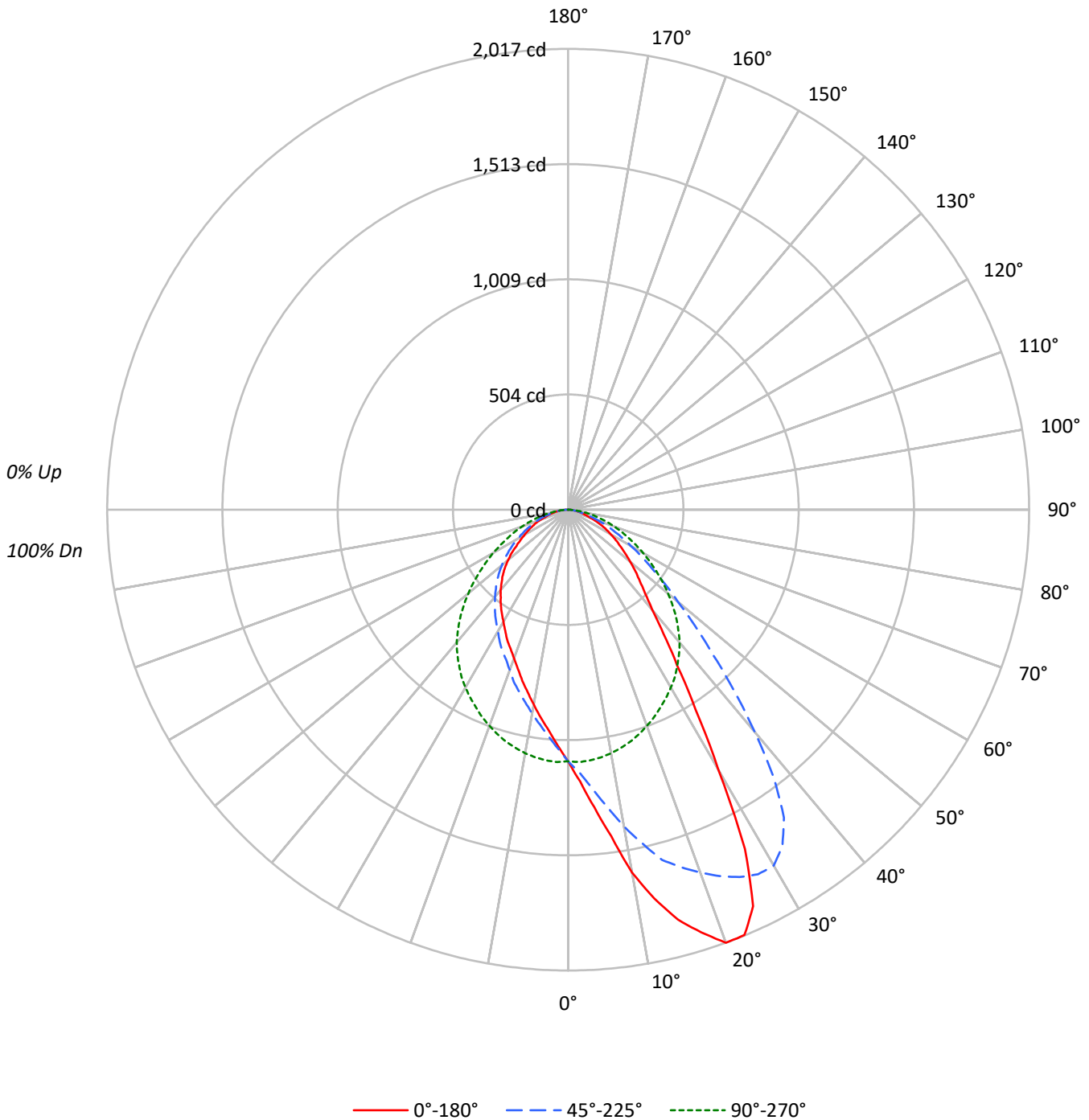
Lumens per Lamp: N/A
Luminaire Lumens: 2741.3 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): 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	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13344	13344	13344	13344	13344
5°	15907	14921	13401	12099	11801
10°	19862	17332	13324	11149	10661
15°	23313	19906	13189	10368	9723
20°	26019	21800	12986	9636	8924
25°	25602	23725	12770	9127	8434
30°	18404	25171	12573	8602	7929
35°	12288	24352	12316	8244	7601
40°	9052	20075	12007	7882	7263
45°	7594	15316	11463	7546	6932
50°	6700	11810	10752	7136	6470
55°	5877	9421	9939	6712	5837
60°	5232	7690	9164	6170	5348
65°	4595	6298	8326	5690	4973
70°	3608	5061	7584	5227	4543
75°	3180	3728	6622	4725	4149
80°	2764	3190	5626	4146	4077
85°	2225	2420	4520	4200	4325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 21554 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.9
10°-20°	338.4	12.3
20°-30°	533.0	19.4
30°-40°	554.3	20.2
40°-50°	474.2	17.3
50°-60°	361.4	13.2
60°-70°	231.6	8.4
70°-80°	110.9	4.0
80°-90°	29.2	1.1
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°	979.6	35.7
0°-40°	1533.9	56.0
0°-60°	2369.6	86.4
0°-90°	2741.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2741.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1101	1101	1101	1101	1101	
5°	1307	1226	1101	994	970	134
15°	1858	1586	1051	826	775	527
25°	1914	1774	955	682	631	832
35°	830	1646	832	557	514	540
45°	443	894	669	440	404	347
55°	278	446	470	318	276	251
65°	160	220	290	198	173	158
75°	68	80	141	101	89	73
85°	16	17	32	30	31	18
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°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1190.5	1192.3	1186.2	1185.3	1178.2	1176.3	1176.3	1166.4	1160.3	1152.3	1147.6
5°	1307.3	1314.9	1311.1	1302.6	1288.5	1285.2	1276.2	1262.1	1246.1	1226.3	1216.8
7.5°	1441.2	1456.7	1453.9	1440.7	1425.6	1416.2	1391.2	1371.0	1340.3	1312.5	1290.8
10°	1613.7	1602.8	1594.3	1581.6	1568.0	1545.8	1519.4	1483.1	1441.2	1408.2	1371.4
12.5°	1742.8	1743.3	1732.0	1718.8	1698.0	1677.3	1643.4	1597.2	1546.7	1495.4	1452.0
15°	1857.8	1860.6	1853.5	1839.9	1812.5	1775.3	1726.3	1707.9	1638.2	1586.3	1534.5
17.5°	1939.8	1940.3	1938.8	1920.5	1890.8	1865.3	1819.6	1776.7	1710.7	1640.5	1571.2
20°	2017.1	2012.4	2013.3	1992.1	1971.4	1940.7	1896.4	1826.2	1774.4	1690.0	1617.9
22.5°	2015.2	2015.2	2019.4	2015.7	2002.0	1980.3	1947.8	1891.2	1821.5	1736.2	1652.8
25°	1914.3	1910.6	1932.7	1938.8	1962.9	1967.1	1956.8	1924.2	1861.6	1773.9	1673.5
27.5°	1674.0	1660.3	1706.5	1752.2	1813.0	1851.7	1891.2	1900.2	1870.5	1798.9	1693.8
30°	1314.9	1359.2	1379.9	1454.4	1537.3	1636.3	1723.0	1805.5	1825.7	1798.4	1715.9
32.5°	1035.9	1073.1	1089.6	1150.9	1226.7	1346.9	1487.8	1613.2	1711.2	1744.2	1702.7
35°	830.4	830.9	870.5	898.7	970.4	1089.6	1215.9	1372.4	1527.9	1645.7	1658.0
37.5°	685.2	687.1	712.6	740.9	798.3	865.3	982.6	1114.6	1301.7	1477.5	1568.9
40°	572.1	576.4	594.3	622.1	660.7	708.3	795.1	917.6	1067.5	1268.7	1433.2
42.5°	499.6	507.1	514.2	534.0	554.2	598.1	664.0	751.7	884.6	1072.2	1268.2
45°	443.0	446.8	453.8	463.7	485.4	516.5	563.7	627.3	740.4	893.5	1083.5
47.5°	399.6	397.3	405.3	413.8	428.4	451.0	484.0	539.1	624.0	752.2	916.6
50°	355.3	354.9	360.1	366.2	379.9	395.4	421.3	460.4	524.5	626.3	773.8
52.5°	313.9	316.2	319.5	327.5	336.5	348.3	370.9	396.3	449.1	533.5	650.4
55°	278.1	279.5	284.7	288.9	296.0	308.7	323.3	346.9	384.6	445.8	547.2
57.5°	247.0	246.5	251.7	252.1	261.1	271.9	283.7	302.1	330.8	379.4	450.1
60°	215.8	214.4	218.7	222.0	226.2	234.7	244.1	262.0	283.7	317.2	375.6
62.5°	187.6	187.1	189.9	193.2	196.5	204.1	211.6	224.3	240.4	267.2	310.6
65°	160.2	161.6	163.1	164.5	166.4	171.1	178.6	188.0	199.8	219.6	253.1
67.5°	132.0	133.8	134.3	137.6	141.4	143.7	148.0	156.9	165.9	183.8	203.6
70°	101.8	101.3	101.8	103.2	108.4	113.6	119.7	125.8	131.0	142.8	158.8
72.5°	83.9	82.9	84.4	84.4	86.2	86.7	90.0	95.7	102.7	109.8	120.2
75°	67.9	67.9	67.9	67.9	69.7	70.7	72.1	73.5	75.9	79.6	88.1
77.5°	52.8	52.8	53.7	54.2	54.7	55.1	56.1	57.5	58.4	60.3	64.6
80°	39.6	40.1	39.6	40.1	40.1	41.0	41.5	42.9	43.4	45.7	47.1
82.5°	27.3	26.9	27.3	27.8	27.8	28.7	28.7	29.7	29.7	30.6	32.0
85°	16.0	15.1	16.0	15.6	16.5	15.6	16.0	17.0	17.0	17.4	19.3
87.5°	4.7	5.7	4.7	5.2	5.2	5.7	5.7	5.7	6.6	6.1	6.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1145.7	1144.3	1137.7	1130.1	1120.2	1113.6	1108.5	1105.6	1097.1	1086.8	1079.7
5°	1206.9	1192.8	1177.7	1159.4	1142.4	1124.9	1114.1	1101.4	1085.8	1068.4	1056.1
7.5°	1267.7	1243.2	1216.4	1188.6	1160.3	1135.3	1112.2	1093.4	1069.8	1045.8	1029.3
10°	1339.9	1299.3	1257.4	1214.5	1175.4	1138.6	1110.3	1082.5	1052.8	1024.1	1002.4
12.5°	1405.4	1348.8	1298.8	1243.7	1190.9	1145.2	1101.4	1067.5	1030.2	999.1	973.7
15°	1458.6	1403.9	1345.5	1265.4	1198.9	1143.3	1093.8	1051.0	1007.6	969.9	945.9
17.5°	1514.2	1431.3	1354.5	1292.3	1205.5	1138.1	1080.2	1030.2	983.1	944.4	914.3
20°	1546.3	1466.6	1381.3	1296.0	1211.2	1133.4	1063.2	1006.7	957.2	911.9	884.6
22.5°	1565.6	1472.8	1381.8	1288.5	1197.1	1115.5	1046.2	982.6	928.0	885.5	850.2
25°	1579.7	1472.3	1373.3	1282.8	1190.9	1103.3	1020.8	954.8	896.8	851.1	815.3
27.5°	1591.0	1466.6	1353.0	1254.5	1161.7	1072.6	998.2	927.5	869.5	821.9	782.8
30°	1593.9	1459.6	1329.0	1220.1	1125.4	1045.3	965.2	898.3	836.1	784.7	748.9
32.5°	1597.6	1442.1	1296.5	1179.1	1081.6	1002.4	931.7	868.6	804.5	754.0	717.3
35°	1584.4	1437.9	1263.5	1130.6	1033.5	956.7	891.2	832.3	769.6	720.6	683.4
37.5°	1544.4	1414.8	1230.5	1076.4	976.0	905.3	850.7	796.9	739.0	685.2	650.8
40°	1477.0	1377.1	1190.9	1027.9	921.8	848.8	800.7	758.8	703.2	653.7	616.0
42.5°	1376.6	1325.7	1153.2	977.0	860.6	790.8	752.2	713.5	666.4	616.0	581.1
45°	1249.4	1257.4	1099.0	922.3	804.9	734.3	696.1	668.7	625.4	583.9	547.6
47.5°	1094.8	1161.7	1041.1	864.8	744.6	678.2	644.7	619.7	589.6	546.7	513.2
50°	944.0	1051.0	968.5	806.8	688.5	622.6	589.6	570.2	544.8	512.8	481.2
52.5°	804.9	921.8	880.8	742.3	627.7	568.8	536.8	521.7	502.9	473.2	445.4
55°	679.1	795.5	784.2	677.2	567.0	512.8	488.2	470.3	456.7	434.0	411.4
57.5°	569.8	682.4	684.8	605.1	514.2	459.0	437.8	423.7	414.3	396.3	374.2
60°	467.5	568.8	588.6	532.1	456.7	409.5	388.8	378.0	370.9	357.2	341.2
62.5°	382.7	465.2	488.2	451.5	401.5	358.2	343.1	332.7	328.5	317.2	303.5
65°	305.9	377.5	399.2	376.6	347.8	312.5	299.3	290.3	286.1	279.5	269.1
67.5°	241.3	296.9	320.5	301.6	290.8	265.8	256.8	251.7	247.9	243.2	234.2
70°	184.7	223.4	247.9	243.7	235.2	223.4	217.3	214.0	210.2	206.4	198.9
72.5°	139.5	163.1	185.7	189.5	182.9	182.9	177.7	176.7	174.8	170.1	166.8
75°	98.5	116.9	132.9	139.0	141.9	144.2	141.9	141.4	140.9	137.1	134.8
77.5°	68.3	80.1	91.0	101.8	105.6	108.9	109.3	111.2	109.8	107.5	106.5
80°	49.5	51.8	58.9	67.9	74.9	77.8	79.6	80.6	80.1	79.6	77.8
82.5°	32.5	34.4	36.8	42.4	48.1	53.3	54.2	53.7	55.1	55.6	54.2
85°	19.3	19.8	20.7	21.7	25.0	30.2	31.6	32.5	33.5	33.5	30.6
87.5°	7.5	7.1	8.0	8.0	9.4	9.9	12.7	15.1	15.6	13.7	13.7
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°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1077.3	1071.2	1067.0	1057.6	1051.4	1044.8	1038.2	1042.5	1042.0	1041.5	1041.5
5°	1045.8	1034.9	1025.0	1012.3	1004.3	994.4	986.9	985.9	987.8	981.2	977.4
7.5°	1016.1	1001.9	987.8	974.6	960.0	948.7	941.6	938.8	933.6	929.4	925.6
10°	984.5	967.1	953.4	936.0	919.9	905.8	896.8	890.7	887.4	884.1	878.0
12.5°	952.0	935.0	916.6	896.4	881.3	864.3	858.2	851.1	844.1	840.3	831.3
15°	920.4	898.3	879.9	859.1	842.2	826.2	816.7	803.1	801.2	796.5	788.0
17.5°	889.8	865.3	838.4	824.3	807.3	790.3	775.3	771.0	756.9	752.2	744.2
20°	852.1	829.9	810.6	790.3	762.5	747.0	735.7	729.5	718.7	712.1	707.4
22.5°	819.6	796.9	773.8	749.3	727.7	709.7	702.2	691.8	687.1	677.2	672.0
25°	788.9	764.4	737.6	712.1	695.6	682.4	669.2	660.7	652.3	648.0	638.6
27.5°	751.7	727.2	701.3	681.5	662.6	649.4	636.7	629.6	618.8	611.7	606.5
30°	722.0	691.8	670.2	652.7	626.8	614.6	605.6	596.2	588.6	581.1	575.9
32.5°	687.6	660.7	640.5	617.8	599.5	585.8	573.5	565.5	559.4	552.3	547.2
35°	651.3	628.2	607.0	585.3	570.7	557.1	543.4	536.3	530.2	523.6	518.9
37.5°	618.3	596.6	576.8	556.1	538.2	526.4	515.1	510.4	501.9	497.2	492.5
40°	588.2	567.0	545.3	525.5	506.6	498.1	488.2	480.2	472.7	469.4	464.2
42.5°	555.2	534.0	516.5	494.8	480.2	468.0	459.0	450.1	444.9	439.7	437.3
45°	522.7	503.8	485.9	464.7	450.1	440.2	429.8	421.8	416.6	413.3	408.1
47.5°	491.5	472.2	454.3	435.5	421.3	410.0	399.2	394.0	386.9	383.2	379.4
50°	457.1	440.2	420.9	403.9	389.7	378.4	370.0	362.9	356.8	351.6	349.2
52.5°	425.6	407.2	391.2	375.6	360.5	347.3	339.8	332.3	328.0	321.9	319.1
55°	390.2	372.8	358.6	343.1	328.5	317.6	308.2	301.6	296.9	290.3	286.5
57.5°	357.7	342.6	325.2	311.5	296.0	287.5	279.5	270.0	264.4	259.2	255.4
60°	324.7	306.8	292.2	279.5	266.3	254.5	247.4	240.4	234.2	229.0	225.7
62.5°	290.3	275.2	261.6	247.4	235.6	225.7	217.3	211.6	206.4	203.6	200.3
65°	255.0	242.7	228.6	217.3	205.9	198.4	191.8	186.6	182.9	180.5	177.7
67.5°	222.4	210.7	197.9	186.2	178.6	172.5	167.8	163.1	161.2	158.4	156.5
70°	190.9	178.6	167.8	159.3	151.8	147.5	144.7	141.4	139.5	135.7	133.8
72.5°	156.5	148.5	141.4	134.8	129.1	125.4	121.6	117.3	114.0	109.8	107.9
75°	128.7	120.6	114.5	109.8	106.0	100.9	95.7	91.4	90.0	88.6	88.1
77.5°	100.4	95.2	90.5	86.7	81.5	76.8	75.4	74.5	74.0	73.0	73.0
80°	74.9	70.2	66.9	62.2	59.4	59.4	59.4	58.4	58.9	58.9	58.9
82.5°	50.9	46.7	45.2	44.3	44.3	44.8	44.8	45.2	44.8	45.7	45.2
85°	28.7	29.2	30.2	29.7	30.2	30.2	31.1	30.6	31.1	30.2	31.1
87.5°	13.2	14.6	15.1	15.6	16.0	15.6	16.0	16.0	16.5	16.5	16.5
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: P242566

CATALOG NUMBER: S123RDRP-S775D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1100.9	1100.9	1100.9	1100.9
2.5°	1035.9	1035.4	1035.9	1034.0
5°	976.0	975.6	974.1	969.9
7.5°	921.8	920.9	917.1	918.1
10°	874.7	875.2	869.5	866.2
12.5°	829.0	826.2	821.9	818.1
15°	789.9	785.2	773.8	774.8
17.5°	741.3	737.6	737.1	730.5
20°	699.9	697.5	698.4	691.8
22.5°	667.3	665.0	659.8	658.9
25°	635.8	632.0	628.2	630.6
27.5°	603.7	600.9	596.6	596.6
30°	573.5	570.7	568.8	566.5
32.5°	542.9	542.9	539.1	539.1
35°	517.0	514.2	513.2	513.7
37.5°	492.0	488.2	486.4	484.5
40°	464.7	460.9	460.0	459.0
42.5°	434.0	433.1	432.6	430.8
45°	406.7	406.2	403.4	404.4
47.5°	377.5	375.1	373.7	375.1
50°	347.3	346.4	342.1	343.1
52.5°	317.2	312.9	312.0	311.0
55°	283.2	279.0	277.1	276.2
57.5°	249.8	248.4	246.5	247.9
60°	221.0	221.0	221.0	220.6
62.5°	198.9	197.5	197.0	197.9
65°	176.3	175.8	173.9	173.4
67.5°	155.5	153.6	153.6	152.7
70°	131.5	130.5	127.7	128.2
72.5°	105.6	104.6	104.6	103.7
75°	87.7	87.2	86.7	88.6
77.5°	73.0	73.0	73.5	72.6
80°	58.9	58.9	58.4	58.4
82.5°	44.3	44.8	45.2	44.3
85°	31.1	30.6	31.6	31.1
87.5°	17.4	16.5	16.5	17.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242566
 CATALOG NUMBER: S123RDRP-S775D830-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	16.64	18.13	17.01	18.45	18.76	20.04	21.53	20.40	21.84	22.16
	3H	17.73	19.07	18.11	19.40	19.76	21.45	22.78	21.82	23.11	23.47
	4H	18.07	19.32	18.47	19.67	20.05	21.95	23.20	22.35	23.55	23.93
	6H	18.32	19.47	18.73	19.84	20.23	22.30	23.45	22.71	23.82	24.21
	8H	18.39	19.49	18.81	19.88	20.28	22.40	23.50	22.83	23.89	24.29
	12H	18.42	19.47	18.85	19.86	20.29	22.46	23.51	22.89	23.89	24.32
4H	2H	17.62	18.87	18.02	19.22	19.60	20.28	21.53	20.68	21.88	22.26
	3H	18.79	19.83	19.20	20.23	20.63	21.97	23.01	22.38	23.41	23.81
	4H	19.18	20.11	19.61	20.53	20.96	22.58	23.51	23.02	23.93	24.37
	6H	19.49	20.30	19.95	20.74	21.20	23.05	23.86	23.51	24.30	24.76
	8H	19.58	20.33	20.04	20.78	21.25	23.19	23.95	23.66	24.39	24.86
	12H	19.63	20.31	20.12	20.79	21.26	23.29	23.97	23.77	24.44	24.92
8H	4H	19.54	20.30	20.01	20.74	21.21	22.63	23.39	23.10	23.84	24.30
	6H	19.92	20.54	20.41	21.03	21.51	23.17	23.79	23.67	24.29	24.76
	8H	20.05	20.61	20.56	21.12	21.61	23.36	23.92	23.88	24.43	24.92
	12H	20.15	20.64	20.66	21.14	21.70	23.52	24.01	24.03	24.51	25.07
12H	4H	19.57	20.25	20.06	20.73	21.20	22.62	23.30	23.10	23.77	24.25
	6H	19.96	20.52	20.48	21.03	21.52	23.16	23.72	23.67	24.23	24.72
	8H	20.14	20.63	20.65	21.12	21.69	23.39	23.88	23.90	24.38	24.94