

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: P243431

Luminaire Tested: S123RDRP-H775D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDRP-H775D835-X4F0-XX-UDD-A-W  
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

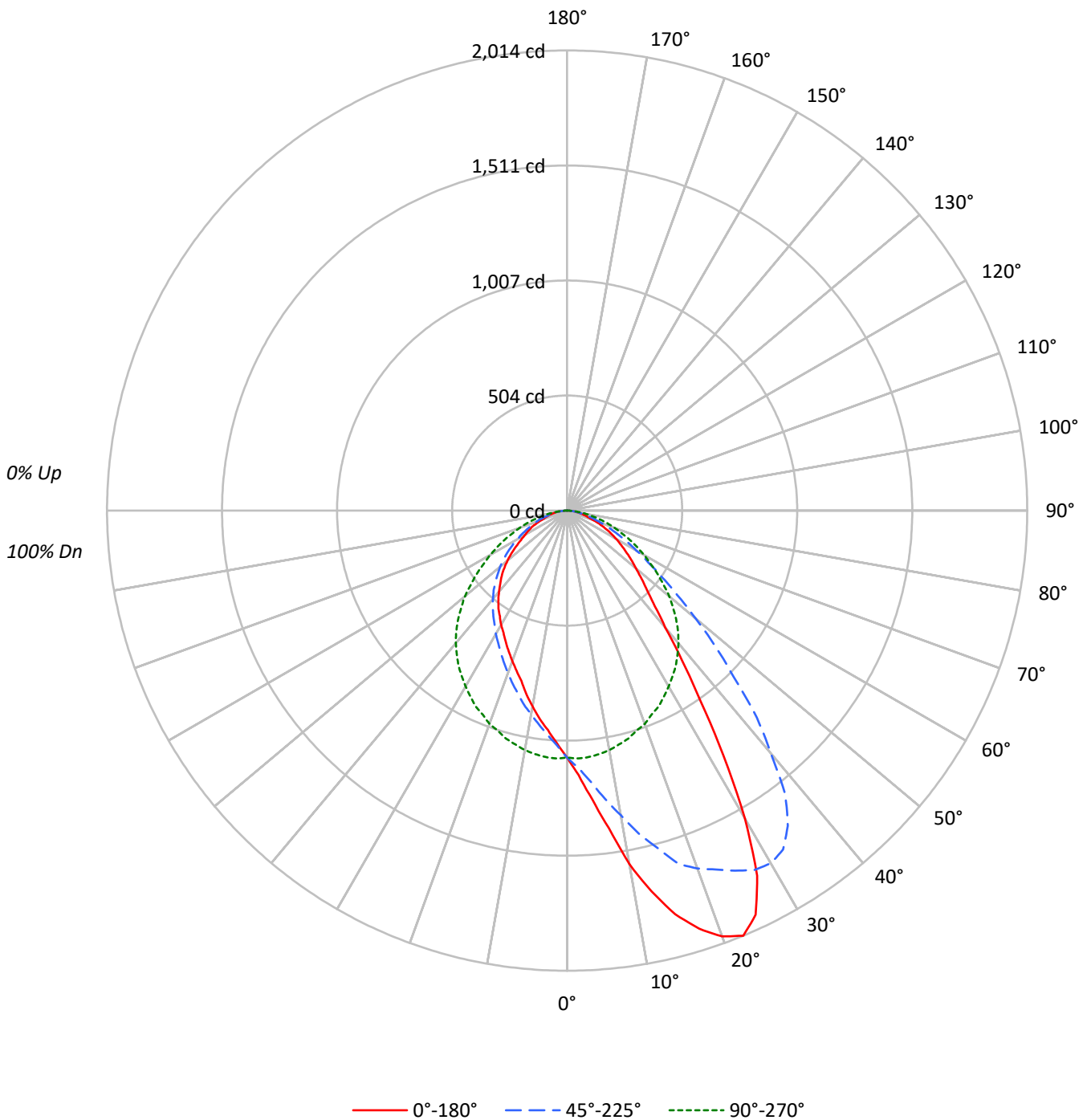
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2817.1 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4  
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	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49					49			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

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

	0°	45°	90°	135°	180°
0°	13105	13105	13105	13105	13105
5°	15450	14501	13177	11979	11736
10°	19340	16674	13101	11135	10711
15°	22952	19185	12969	10416	9701
20°	25580	21503	12814	9774	9032
25°	26111	23257	12656	9191	8503
30°	21757	24953	12440	8735	8089
35°	15031	24916	12268	8331	7751
40°	10564	21939	11989	7992	7342
45°	8482	17668	11564	7633	6946
50°	7394	13830	11013	7209	6427
55°	6629	10674	10190	6737	5723
60°	5998	8499	9416	6112	5183
65°	5249	6975	8676	5530	4847
70°	4235	5674	7807	5079	4104
75°	3672	4458	6800	4285	4023
80°	3385	3651	5801	4104	4042
85°	2990	3115	4673	3699	3505

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 22142 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.0	3.8
10°-20°	333.9	11.9
20°-30°	535.0	19.0
30°-40°	580.8	20.6
40°-50°	497.6	17.7
50°-60°	377.2	13.4
60°-70°	241.0	8.6
70°-80°	115.3	4.1
80°-90°	30.3	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°	974.9	34.6
0°-40°	1555.8	55.2
0°-60°	2430.6	86.3
0°-90°	2817.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1081	1081	1081	1081	1081	
5°	1270	1192	1083	984	964	130
15°	1829	1529	1034	830	773	518
25°	1952	1739	946	687	636	866
35°	1016	1684	829	563	524	652
45°	495	1031	675	445	405	391
55°	314	505	482	319	271	283
65°	183	243	302	193	169	182
75°	78	95	145	92	86	85
85°	22	22	34	27	25	24
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°	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2
2.5°	1158.7	1160.1	1157.7	1157.3	1156.8	1149.3	1147.0	1143.2	1130.2	1126.9	1124.6
5°	1269.8	1266.0	1270.2	1262.3	1253.4	1248.3	1239.9	1221.2	1204.9	1191.8	1183.4
7.5°	1401.4	1402.8	1398.6	1391.1	1373.4	1365.9	1343.0	1320.6	1299.2	1272.1	1252.0
10°	1571.3	1560.1	1562.5	1539.1	1520.4	1498.0	1466.8	1430.8	1393.0	1354.7	1326.2
12.5°	1706.7	1714.6	1709.0	1697.8	1661.9	1639.9	1611.5	1559.2	1499.4	1448.1	1404.7
15°	1829.0	1818.3	1819.7	1792.6	1779.5	1759.5	1712.3	1660.5	1621.7	1528.8	1477.5
17.5°	1918.6	1917.7	1916.3	1893.4	1877.6	1835.5	1787.5	1734.2	1685.7	1621.3	1556.9
20°	1983.1	1990.1	1988.2	1969.5	1941.5	1900.9	1872.0	1805.7	1725.8	1667.0	1588.1
22.5°	2013.9	2014.3	2015.3	2006.4	1987.7	1961.6	1920.5	1867.3	1796.3	1700.2	1612.4
25°	1952.3	1954.6	1966.7	1974.2	1979.3	1967.7	1946.2	1898.1	1836.9	1738.9	1647.9
27.5°	1801.0	1808.5	1822.0	1866.8	1885.0	1910.2	1919.1	1900.0	1854.7	1773.0	1669.4
30°	1554.5	1575.5	1588.6	1639.5	1710.9	1778.1	1809.9	1841.1	1836.9	1782.8	1677.8
32.5°	1272.6	1286.1	1323.9	1378.5	1435.0	1533.5	1643.7	1719.3	1761.8	1759.0	1684.8
35°	1015.8	1035.4	1067.6	1109.2	1187.1	1289.4	1414.0	1533.0	1639.5	1683.8	1657.2
37.5°	824.4	826.3	856.6	915.4	964.0	1054.1	1166.6	1313.6	1453.2	1569.0	1594.7
40°	667.6	680.6	696.5	733.4	790.8	877.2	951.9	1096.6	1241.3	1386.5	1490.1
42.5°	568.6	568.6	586.3	609.7	648.0	699.8	788.9	920.1	1050.4	1228.7	1345.4
45°	494.8	499.5	507.4	522.4	549.5	589.6	658.7	747.9	880.9	1030.7	1206.3
47.5°	441.6	441.1	448.2	457.0	478.0	508.4	549.0	621.3	719.8	881.4	1036.3
50°	392.1	394.0	399.1	406.6	420.6	442.1	467.8	522.4	605.5	733.4	895.8
52.5°	353.9	353.4	357.6	362.3	373.0	385.1	408.0	448.6	506.0	607.8	742.7
55°	313.7	315.6	320.7	323.5	332.4	340.3	359.5	382.3	428.5	505.1	627.9
57.5°	279.2	281.5	284.3	287.1	293.2	301.1	317.0	331.0	364.6	419.7	517.7
60°	247.4	246.5	249.8	254.4	257.7	264.7	273.6	288.0	311.4	350.6	422.5
62.5°	215.7	216.1	216.6	219.4	225.5	231.5	239.5	250.2	264.2	293.2	344.0
65°	183.0	183.5	184.4	187.2	193.3	197.0	205.4	214.7	225.9	243.2	278.7
67.5°	154.1	155.9	155.9	158.3	160.6	164.3	170.4	177.4	186.7	199.3	222.2
70°	119.5	119.0	121.4	126.0	128.4	134.9	139.1	143.8	152.2	160.1	179.7
72.5°	96.2	96.2	96.2	98.0	98.5	99.9	102.7	112.5	119.0	127.0	137.7
75°	78.4	78.9	78.9	79.4	79.8	81.2	82.2	85.0	86.8	95.2	101.8
77.5°	62.6	63.0	63.0	63.5	64.0	64.4	66.3	66.3	67.7	69.6	72.4
80°	48.5	48.1	48.1	48.5	48.5	50.0	50.0	50.9	51.4	52.3	53.7
82.5°	34.5	34.1	34.5	34.1	34.5	35.0	35.9	35.5	36.4	37.3	37.8
85°	21.5	21.9	21.9	22.9	22.4	21.9	22.4	22.4	22.4	22.4	23.3
87.5°	9.3	10.3	10.3	9.8	10.3	10.3	9.3	10.3	10.3	10.3	10.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2
2.5°	1123.2	1121.3	1114.3	1107.8	1098.0	1093.8	1088.2	1085.8	1078.4	1068.1	1063.4
5°	1175.5	1161.5	1147.9	1131.6	1118.0	1102.2	1093.3	1083.0	1067.2	1052.7	1042.4
7.5°	1231.0	1210.5	1185.3	1158.2	1133.9	1111.0	1091.4	1075.1	1054.6	1034.5	1018.6
10°	1292.2	1257.2	1216.5	1182.0	1147.0	1113.8	1089.1	1064.4	1037.7	1012.5	993.4
12.5°	1358.0	1308.5	1259.5	1207.7	1155.4	1117.1	1080.2	1048.5	1018.6	992.0	969.1
15°	1426.1	1358.5	1295.9	1237.5	1164.7	1113.4	1072.8	1033.5	996.2	963.5	941.1
17.5°	1474.7	1397.2	1318.3	1235.7	1173.1	1109.6	1059.2	1009.7	975.2	941.6	911.2
20°	1519.5	1431.7	1337.9	1260.9	1173.6	1096.1	1041.0	993.4	945.3	909.4	883.7
22.5°	1538.6	1459.3	1364.5	1257.6	1170.3	1091.0	1020.0	966.3	923.4	884.2	850.6
25°	1542.4	1453.7	1356.6	1253.4	1157.7	1071.8	999.9	946.3	890.2	849.6	823.5
27.5°	1558.7	1437.3	1342.1	1239.4	1142.3	1052.7	977.1	917.3	865.0	821.6	788.0
30°	1562.9	1430.3	1311.3	1213.3	1113.4	1025.6	949.1	888.8	831.9	787.5	757.2
32.5°	1564.8	1421.0	1279.1	1171.7	1076.5	993.9	923.8	858.5	804.3	757.7	726.4
35°	1558.3	1407.9	1240.3	1124.6	1033.1	951.9	887.0	829.1	768.9	725.0	691.8
37.5°	1532.6	1387.4	1218.4	1069.5	982.2	905.6	850.6	793.6	738.0	690.4	656.4
40°	1484.0	1357.5	1177.3	1023.3	924.3	855.7	804.3	757.7	701.6	655.9	622.3
42.5°	1406.5	1316.9	1139.5	971.0	866.9	802.0	759.1	718.9	668.5	625.1	588.2
45°	1291.7	1260.0	1089.1	917.8	804.3	743.2	705.8	674.6	628.8	589.1	555.1
47.5°	1167.5	1174.5	1038.2	863.6	747.4	689.0	656.4	628.8	594.3	551.8	520.5
50°	1024.2	1062.5	966.8	809.0	690.4	633.0	600.8	584.0	551.8	516.3	486.9
52.5°	893.0	953.7	894.4	749.3	634.4	577.9	548.1	531.2	509.8	480.4	450.5
55°	757.2	834.2	791.3	684.8	577.5	520.5	495.3	482.2	464.5	441.6	414.5
57.5°	644.7	726.8	699.8	617.1	521.9	470.6	448.2	433.2	422.5	401.5	379.5
60°	534.5	610.6	599.9	539.2	466.8	417.8	400.5	388.4	379.5	364.1	342.6
62.5°	431.3	505.1	511.6	464.0	413.1	368.8	352.9	344.5	337.5	325.4	305.8
65°	342.2	407.1	420.6	384.2	356.7	323.0	307.6	302.5	297.4	283.4	268.4
67.5°	268.0	318.8	336.6	316.0	296.4	276.8	264.7	257.7	254.0	245.5	235.3
70°	204.9	248.8	263.8	254.9	241.8	234.3	225.0	220.3	216.6	205.9	200.3
72.5°	153.6	183.5	202.1	199.3	196.5	191.4	185.8	184.4	178.8	171.8	166.7
75°	112.5	129.8	146.6	152.7	151.7	153.6	147.5	145.2	141.9	136.8	132.6
77.5°	80.8	91.0	102.7	110.2	113.9	114.4	114.4	113.0	110.6	106.9	103.6
80°	56.0	58.4	69.1	76.1	79.8	82.6	82.6	83.1	80.8	79.4	77.0
82.5°	38.7	40.1	42.5	48.1	52.8	56.0	56.5	56.0	55.1	54.6	51.4
85°	24.3	23.8	23.8	25.2	28.9	32.2	32.7	33.6	33.1	32.7	29.4
87.5°	10.3	10.3	10.7	10.3	11.7	12.1	13.1	15.4	14.9	12.6	11.7
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°	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2	1081.2
2.5°	1060.6	1054.6	1049.0	1042.9	1035.4	1028.4	1027.5	1026.5	1028.9	1024.2	1022.3
5°	1034.5	1022.8	1013.9	1002.7	994.8	984.5	978.9	977.5	977.1	974.3	970.5
7.5°	1006.0	993.4	980.8	968.2	955.1	944.4	938.3	935.0	932.2	927.6	923.8
10°	979.4	963.5	950.0	932.7	918.7	904.7	899.1	894.4	891.6	885.1	880.0
12.5°	949.5	929.4	914.5	895.8	883.2	871.1	862.2	853.4	846.8	837.0	832.8
15°	923.4	902.4	877.2	866.0	848.2	830.0	820.2	820.2	806.7	798.7	793.6
17.5°	888.4	870.2	852.4	829.5	804.3	793.6	782.4	772.6	763.3	760.9	751.6
20°	857.6	836.1	817.9	793.1	770.3	757.7	744.6	733.8	726.8	720.3	715.2
22.5°	827.2	805.7	777.7	753.5	738.0	721.2	707.2	697.9	691.8	682.0	677.4
25°	795.5	769.8	744.6	720.8	701.6	687.2	672.7	667.6	656.8	651.7	645.1
27.5°	763.7	732.9	709.1	688.6	667.1	653.1	643.3	633.9	624.6	621.8	618.1
30°	728.2	699.8	676.9	656.8	636.3	624.1	612.5	604.1	596.1	590.1	585.9
32.5°	692.8	669.0	647.0	623.7	605.0	591.9	582.1	574.7	570.9	560.7	556.9
35°	660.1	635.8	612.5	590.5	575.6	563.0	554.1	547.1	539.2	532.6	528.9
37.5°	626.5	604.5	580.7	562.1	545.2	535.0	525.2	515.8	509.8	506.0	501.4
40°	593.8	570.5	552.3	531.7	516.8	505.1	494.8	487.8	480.4	477.1	471.0
42.5°	563.0	540.6	519.6	500.9	487.4	476.2	466.4	458.4	452.4	446.3	443.0
45°	527.5	507.9	488.8	470.1	457.5	445.3	434.6	427.6	419.2	414.1	412.2
47.5°	497.6	477.1	456.6	439.3	426.2	413.1	404.3	395.9	388.9	383.7	380.9
50°	462.2	443.0	426.2	408.9	396.3	382.3	371.6	363.7	355.7	352.0	347.3
52.5°	431.8	413.1	392.6	377.2	362.7	350.6	340.8	334.2	327.2	321.6	318.4
55°	394.0	375.8	359.5	343.1	328.6	318.8	310.9	299.7	293.6	288.0	279.2
57.5°	360.9	343.6	326.3	310.4	296.9	285.2	275.4	268.0	260.0	255.8	249.8
60°	325.8	307.6	291.8	279.6	264.7	252.1	245.5	236.7	230.1	223.6	221.7
62.5°	291.3	274.5	258.6	246.0	232.5	222.7	214.3	210.1	203.5	198.4	196.5
65°	255.4	241.3	226.4	212.4	204.0	192.8	188.1	181.1	177.4	175.1	174.6
67.5°	219.9	207.3	193.7	183.0	175.1	167.6	162.0	159.2	155.5	152.7	150.3
70°	187.7	175.5	163.9	155.0	148.9	143.3	139.6	134.4	130.7	127.0	121.8
72.5°	155.9	146.1	136.3	129.3	123.2	120.0	114.8	106.9	103.2	102.2	101.8
75°	126.5	115.8	108.8	105.0	99.4	91.5	88.2	87.3	86.8	85.9	85.9
77.5°	97.6	91.0	86.4	78.4	75.6	75.2	72.8	72.4	71.4	71.9	71.9
80°	71.0	67.2	61.6	59.3	58.4	58.8	57.9	58.4	57.4	57.9	57.0
82.5°	47.1	43.9	44.8	43.4	43.4	44.3	43.9	42.5	42.5	42.0	42.0
85°	28.0	27.5	28.5	28.5	28.0	26.6	27.5	27.1	25.7	26.1	26.1
87.5°	12.1	12.1	12.1	11.7	12.1	11.7	11.7	11.7	10.3	10.3	10.3
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: P243431

CATALOG NUMBER: S123RDRP-H775D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1081.2	1081.2	1081.2	1081.2
2.5°	1023.3	1022.3	1020.9	1019.5
5°	970.5	966.3	965.9	964.5
7.5°	921.0	919.2	915.9	919.6
10°	875.8	877.2	873.9	870.2
12.5°	828.6	825.8	820.7	823.5
15°	787.1	782.4	779.6	773.1
17.5°	743.6	739.9	739.9	735.7
20°	705.8	702.1	703.0	700.2
22.5°	674.1	671.3	667.1	667.6
25°	644.2	640.0	635.3	635.8
27.5°	611.1	607.3	606.4	603.1
30°	581.7	578.4	577.9	577.9
32.5°	553.2	551.8	549.5	548.1
35°	528.4	526.6	522.8	523.8
37.5°	497.6	495.8	495.3	494.8
40°	468.7	467.3	463.6	464.0
42.5°	439.7	437.4	435.1	434.1
45°	408.5	408.0	404.3	405.2
47.5°	378.6	377.7	375.8	373.5
50°	345.4	345.0	343.6	340.8
52.5°	313.2	311.8	309.0	306.2
55°	276.8	272.6	273.1	270.8
57.5°	246.9	245.1	241.3	239.9
60°	218.0	216.1	215.7	213.8
62.5°	193.7	191.9	190.5	190.5
65°	171.8	169.5	169.0	169.0
67.5°	147.5	145.2	144.7	143.8
70°	117.2	116.7	115.8	115.8
72.5°	100.8	100.4	100.8	99.0
75°	85.9	85.4	85.4	85.9
77.5°	71.4	71.4	71.0	71.0
80°	56.5	57.0	56.5	57.9
82.5°	42.5	41.5	42.0	41.1
85°	26.1	26.1	25.2	25.2
87.5°	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243431  
 CATALOG NUMBER: S123RDRP-H775D835-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	17.33	18.83	17.69	19.14	19.46	20.03	21.53	20.39	21.84	22.16
	3H	18.51	19.86	18.89	20.19	20.55	21.45	22.80	21.83	23.13	23.49
	4H	18.87	20.13	19.27	20.48	20.86	21.96	23.22	22.36	23.56	23.94
	6H	19.14	20.31	19.55	20.67	21.06	22.30	23.46	22.71	23.83	24.22
	8H	19.23	20.34	19.66	20.73	21.13	22.40	23.51	22.83	23.90	24.30
	12H	19.29	20.35	19.72	20.74	21.16	22.46	23.52	22.89	23.90	24.33
4H	2H	18.28	19.54	18.68	19.89	20.27	20.31	21.57	20.71	21.92	22.29
	3H	19.55	20.59	19.96	20.99	21.39	22.02	23.07	22.43	23.47	23.87
	4H	19.95	20.89	20.39	21.31	21.75	22.64	23.58	23.07	23.99	24.43
	6H	20.30	21.11	20.76	21.56	22.02	23.09	23.91	23.55	24.35	24.81
	8H	20.41	21.18	20.88	21.62	22.09	23.23	23.99	23.70	24.44	24.91
	12H	20.50	21.18	20.99	21.66	22.13	23.33	24.01	23.81	24.49	24.96
8H	4H	20.31	21.08	20.78	21.52	21.99	22.70	23.46	23.16	23.90	24.37
	6H	20.73	21.36	21.23	21.85	22.33	23.23	23.85	23.72	24.35	24.82
	8H	20.90	21.46	21.41	21.97	22.46	23.42	23.98	23.93	24.49	24.98
	12H	21.04	21.54	21.55	22.03	22.60	23.57	24.07	24.08	24.56	25.12
12H	4H	20.34	21.02	20.83	21.50	21.97	22.68	23.36	23.17	23.84	24.31
	6H	20.78	21.34	21.29	21.85	22.34	23.22	23.78	23.73	24.29	24.78
	8H	20.99	21.49	21.50	21.98	22.55	23.45	23.94	23.96	24.44	25.00