

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: P242394

Luminaire Tested: S122RDRP-S675D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-S675D830-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

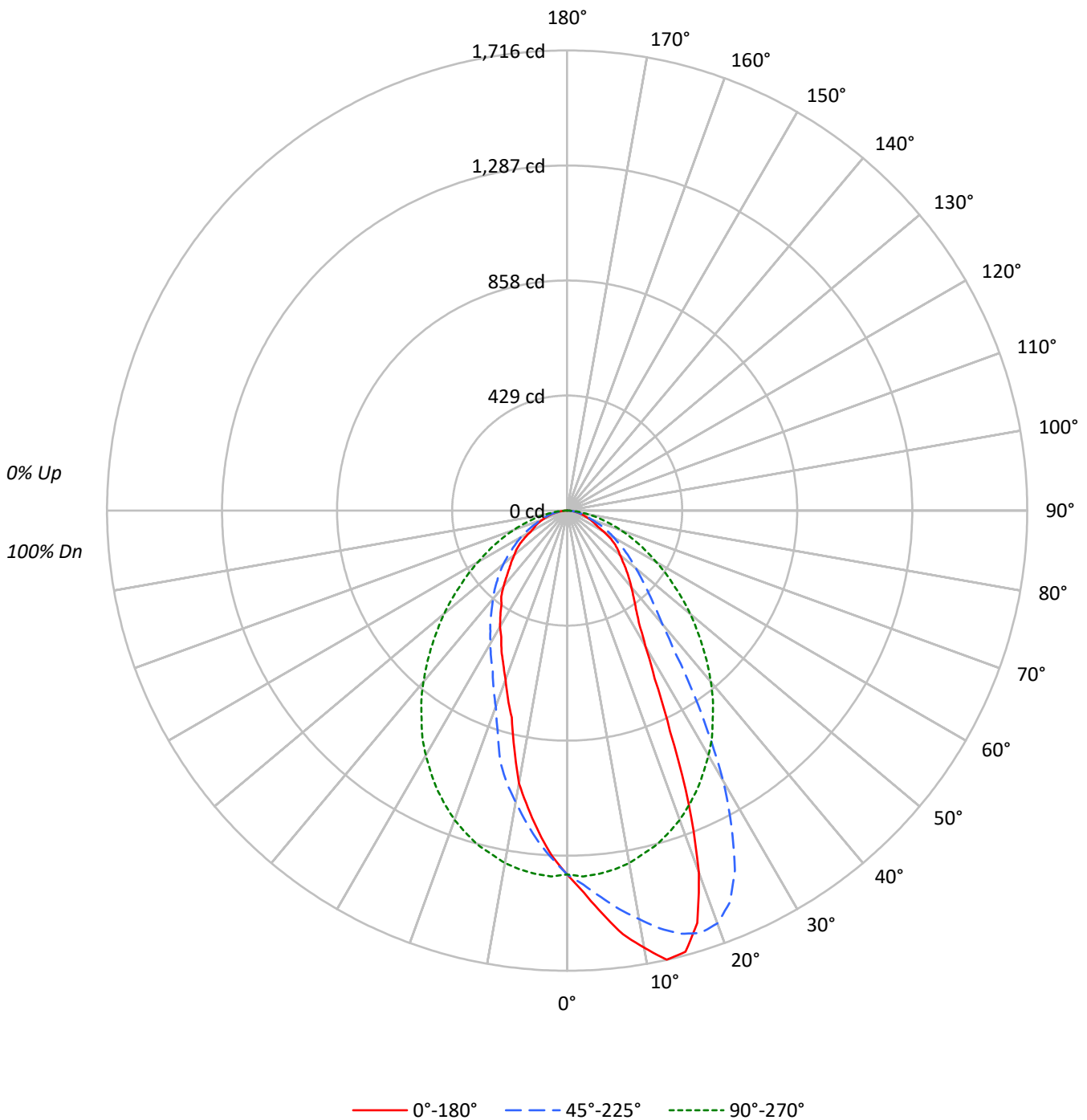
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2343.9 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 3.88' x L: 0.15' 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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89				87	
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78				76	
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68				66	
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60				59	
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54				52	
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49				47	
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44				42	
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40				39	
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37				35	
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34				33	

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

	0°	45°	90°	135°	180°
0°	25836	25836	25836	25836	25836
5°	28855	27665	25998	23690	23052
10°	32014	29927	25815	21349	19982
15°	33588	32212	25436	19043	15744
20°	29118	33207	24878	15772	13624
25°	19098	31111	24108	13808	12165
30°	12854	25615	23178	12574	11008
35°	10410	18707	22007	11594	9929
40°	9257	13745	20730	10699	9188
45°	8380	11427	19233	9916	8202
50°	7625	9900	17750	9163	7598
55°	7170	8764	16106	8279	7073
60°	5996	7631	14598	7596	5924
65°	5057	6797	13255	6756	5738
70°	4673	5408	11840	5959	5408
75°	4372	4894	10303	5623	4997
80°	4037	4443	8479	4914	4443
85°	3715	3803	6688	3912	3912

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 70°  
 Vertical Angle: 45°  
 Luminance: 28020 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	5.5
10°-20°	359.1	15.3
20°-30°	462.1	19.7
30°-40°	438.4	18.7
40°-50°	375.7	16.0
50°-60°	286.2	12.2
60°-70°	180.5	7.7
70°-80°	90.1	3.8
80°-90°	23.2	1.0
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°	949.9	40.5
0°-40°	1388.3	59.2
0°-60°	2050.2	87.5
0°-90°	2343.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1356	1356	1356	1356	1356	
5°	1509	1447	1360	1239	1206	149
15°	1703	1634	1290	966	798	463
25°	909	1480	1147	657	579	429
35°	448	804	946	499	427	285
45°	311	424	714	368	304	241
55°	216	264	485	249	213	190
65°	112	151	294	150	127	113
75°	59	66	140	76	68	63
85°	17	17	31	18	18	19
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°	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	1425.2	1426.6	1428.0	1424.7	1424.7	1421.9	1415.8	1411.1	1397.9	1396.0	1396.0
5°	1509.1	1508.1	1510.0	1503.9	1495.4	1493.5	1484.6	1472.8	1460.5	1446.9	1444.1
7.5°	1593.9	1588.3	1585.9	1588.7	1579.8	1567.5	1552.5	1538.3	1517.1	1499.7	1488.8
10°	1655.2	1670.7	1661.3	1644.8	1648.1	1626.0	1614.2	1593.9	1577.0	1547.3	1540.7
12.5°	1715.5	1719.3	1717.9	1710.3	1704.2	1690.5	1673.6	1656.6	1621.7	1595.8	1568.5
15°	1703.3	1712.2	1714.6	1711.7	1714.1	1713.2	1704.7	1690.1	1662.7	1633.5	1608.1
17.5°	1612.8	1623.1	1631.6	1639.2	1651.0	1674.0	1681.1	1683.9	1672.6	1651.9	1630.7
20°	1436.5	1426.1	1469.5	1491.7	1510.5	1557.6	1598.2	1613.7	1638.7	1638.2	1633.5
22.5°	1186.7	1192.4	1232.9	1260.2	1324.3	1371.5	1419.1	1488.4	1542.6	1582.6	1607.1
25°	908.7	926.6	967.6	1003.4	1064.7	1152.3	1232.0	1324.3	1411.5	1480.3	1545.9
27.5°	706.9	709.3	746.5	782.8	820.5	896.4	1002.9	1113.7	1238.1	1327.6	1440.8
30°	584.4	581.6	595.2	615.5	646.6	702.2	777.6	886.0	1010.0	1164.6	1302.2
32.5°	497.7	498.6	508.1	521.7	546.2	579.2	624.9	707.9	823.4	974.6	1142.0
35°	447.7	447.3	454.8	465.6	476.5	500.5	535.9	582.1	662.6	804.5	969.5
37.5°	406.3	408.6	411.9	419.0	432.2	446.3	468.5	501.0	562.3	650.4	798.4
40°	372.3	373.3	378.5	384.1	391.2	401.5	419.0	444.0	485.9	552.8	654.2
42.5°	341.2	342.2	345.5	350.6	355.8	366.2	379.9	400.6	432.7	481.2	560.4
45°	311.1	311.1	314.4	316.7	322.8	332.3	344.0	362.0	385.5	424.2	479.8
47.5°	281.8	281.8	284.2	288.4	292.7	300.2	312.5	327.6	344.5	376.1	425.6
50°	257.3	257.8	259.2	262.5	264.9	271.5	280.4	293.1	311.1	334.1	373.7
52.5°	237.5	237.1	238.9	239.9	241.3	245.5	251.7	262.5	278.1	297.4	328.5
55°	215.9	214.0	216.8	219.2	220.6	222.5	226.2	233.3	247.0	263.9	288.4
57.5°	190.4	189.5	190.9	193.2	197.5	202.2	204.5	209.3	216.3	229.5	255.4
60°	157.4	157.4	161.7	163.1	168.3	174.9	181.4	185.2	192.3	200.3	218.2
62.5°	128.2	128.7	130.1	131.5	133.8	142.3	152.2	161.7	168.3	175.8	186.2
65°	112.2	113.1	113.1	114.1	115.9	117.8	121.6	128.2	140.0	150.8	159.8
67.5°	98.0	98.0	98.5	99.4	99.9	102.3	103.7	107.0	109.3	121.6	133.8
70°	83.9	85.3	84.8	85.8	86.2	87.2	89.1	90.5	94.7	97.1	103.7
72.5°	70.7	71.6	71.6	72.1	73.5	73.5	74.9	76.4	78.7	80.6	83.4
75°	59.4	58.9	59.4	60.3	60.8	61.3	61.3	63.2	64.6	66.5	68.8
77.5°	48.1	48.5	48.5	48.5	48.5	49.5	49.5	50.4	51.8	52.8	54.2
80°	36.8	37.2	36.8	37.2	37.7	38.2	37.7	38.2	39.6	40.5	40.5
82.5°	26.4	26.4	26.9	26.9	26.9	26.9	27.8	27.8	28.7	28.3	28.7
85°	17.0	16.5	16.5	16.5	17.0	17.4	17.0	17.0	17.4	17.4	17.4
87.5°	7.5	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.0	8.5	8.0
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°	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	1396.9	1393.2	1389.9	1381.4	1377.1	1367.7	1366.3	1365.8	1353.6	1341.8	1338.5
5°	1436.5	1429.0	1417.7	1404.5	1390.8	1376.7	1367.2	1359.7	1340.8	1322.9	1312.6
7.5°	1475.6	1462.0	1444.1	1421.4	1402.1	1379.5	1363.9	1349.8	1323.9	1300.3	1284.8
10°	1520.4	1494.0	1468.1	1433.7	1406.8	1380.4	1355.9	1334.7	1304.5	1270.6	1246.6
12.5°	1548.2	1518.5	1480.3	1446.9	1410.1	1374.8	1339.9	1311.1	1274.4	1239.0	1209.3
15°	1572.7	1541.6	1498.3	1450.2	1405.4	1361.6	1323.9	1289.9	1243.8	1201.8	1166.9
17.5°	1595.3	1552.5	1507.7	1452.1	1402.6	1349.3	1301.7	1259.3	1208.9	1159.4	1119.8
20°	1605.2	1562.8	1509.1	1453.5	1392.2	1326.7	1274.4	1227.3	1172.1	1117.0	1069.8
22.5°	1599.1	1568.5	1507.2	1437.9	1374.8	1305.5	1244.7	1188.1	1125.5	1068.9	1012.3
25°	1567.1	1555.8	1499.2	1426.6	1355.0	1275.3	1207.0	1147.1	1077.4	1017.1	957.7
27.5°	1508.1	1524.6	1484.6	1405.9	1328.6	1242.8	1168.3	1100.9	1029.8	962.4	903.0
30°	1414.8	1470.9	1455.8	1384.2	1295.1	1211.2	1125.0	1053.8	976.5	906.8	848.3
32.5°	1287.1	1388.9	1411.1	1354.0	1261.2	1166.9	1075.5	1004.8	923.3	848.8	792.2
35°	1150.0	1288.5	1352.2	1314.0	1221.6	1122.2	1028.8	946.4	865.3	792.7	736.2
37.5°	987.4	1172.1	1270.1	1265.9	1177.8	1076.4	975.1	893.6	810.2	738.5	679.6
40°	830.0	1034.5	1172.6	1203.2	1131.6	1019.9	917.1	833.7	752.7	682.9	612.7
42.5°	688.6	892.2	1069.8	1128.8	1075.5	964.7	861.5	773.4	695.2	630.1	558.0
45°	579.7	757.8	944.9	1040.2	1008.6	905.8	797.0	714.0	640.0	583.0	514.2
47.5°	501.9	631.5	819.6	944.0	940.2	842.7	734.3	654.6	584.9	532.1	473.7
50°	437.4	546.7	699.9	846.0	858.2	779.5	677.7	599.0	534.9	478.8	434.1
52.5°	379.4	464.7	598.5	737.1	777.6	712.1	614.1	542.9	481.2	430.8	394.0
55°	330.4	400.1	504.8	635.8	688.6	640.5	552.8	485.0	434.5	391.2	358.2
57.5°	287.5	342.2	429.4	539.2	599.0	566.5	491.6	435.5	390.7	350.2	323.8
60°	247.4	290.3	361.5	449.6	517.5	496.3	434.5	383.2	346.4	312.5	288.0
62.5°	209.7	245.1	303.5	370.9	431.7	426.1	378.5	337.4	306.3	276.2	256.4
65°	174.9	201.7	249.3	305.4	355.4	359.6	323.3	294.1	265.3	240.8	222.5
67.5°	144.7	163.1	198.9	248.4	286.5	299.7	275.2	251.7	228.1	208.3	191.8
70°	117.4	131.5	156.0	194.2	228.6	242.7	230.0	212.6	192.8	177.2	163.5
72.5°	89.5	103.2	119.7	145.2	173.4	189.0	186.6	175.3	160.2	148.0	135.3
75°	71.6	75.9	88.1	107.0	130.1	143.3	146.6	140.0	127.3	117.4	109.8
77.5°	55.6	58.4	65.0	76.4	92.4	104.2	109.3	108.4	99.0	92.4	85.3
80°	42.4	43.8	46.7	50.9	62.2	74.0	77.3	77.3	71.2	68.8	61.7
82.5°	29.7	30.6	32.0	33.9	37.7	47.6	51.4	52.3	49.0	45.7	40.5
85°	18.4	17.9	18.9	20.3	21.2	24.0	29.7	30.6	29.7	25.9	24.5
87.5°	8.0	8.5	8.5	8.0	8.5	9.0	11.3	13.7	11.8	10.4	9.4
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°	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	1332.4	1329.1	1322.9	1313.5	1307.8	1298.0	1291.4	1295.1	1296.1	1295.1	1294.2
5°	1301.3	1291.4	1277.7	1264.5	1252.2	1239.0	1231.5	1228.2	1221.6	1217.8	1215.9
7.5°	1265.9	1251.3	1232.0	1210.8	1191.0	1172.1	1163.6	1157.0	1144.8	1138.2	1132.1
10°	1225.4	1198.5	1179.2	1149.0	1130.6	1103.8	1085.4	1085.9	1067.5	1057.1	1049.6
12.5°	1180.6	1150.4	1115.1	1088.7	1061.4	1041.1	1018.0	1006.7	986.9	977.0	953.4
15°	1130.2	1095.8	1061.8	1025.1	999.1	965.7	933.6	894.5	862.9	835.6	828.1
17.5°	1076.4	1034.0	1000.6	962.9	922.3	861.5	821.9	797.9	779.1	764.9	753.6
20°	1020.8	977.5	941.2	876.1	816.3	778.1	750.8	733.3	713.5	698.0	689.5
22.5°	962.4	916.7	863.9	789.4	746.1	717.3	693.7	673.0	661.2	649.9	642.4
25°	907.7	858.2	776.7	726.7	689.0	657.0	640.0	627.8	613.6	597.1	589.6
27.5°	850.7	772.0	710.2	674.0	635.3	615.0	600.4	580.2	567.4	561.3	552.8
30°	785.2	706.5	660.8	620.2	594.8	571.7	553.8	543.4	531.2	518.4	513.2
32.5°	712.1	653.2	609.9	577.8	551.9	533.0	519.8	501.5	493.4	486.8	474.6
35°	654.2	606.6	566.5	539.2	514.7	498.6	482.1	472.2	456.2	449.6	445.4
37.5°	601.4	559.9	529.7	499.6	480.7	461.9	452.4	435.9	429.8	419.5	411.0
40°	558.0	517.5	488.7	465.2	443.5	430.3	417.6	404.8	394.5	390.2	379.4
42.5°	513.7	482.6	453.9	427.5	414.7	400.6	383.6	375.2	364.3	356.8	351.1
45°	473.7	444.4	419.9	398.7	382.7	368.1	357.7	342.2	336.0	322.4	316.7
47.5°	438.3	410.0	386.5	365.7	349.7	341.2	326.1	312.5	304.0	294.6	286.5
50°	400.1	377.5	354.9	337.0	322.8	309.2	293.6	287.5	272.4	268.2	263.9
52.5°	365.3	344.0	323.8	306.3	292.2	279.0	265.8	257.3	248.4	244.1	241.3
55°	333.2	312.5	292.7	277.1	263.0	249.3	240.8	230.9	226.2	222.9	219.2
57.5°	300.2	281.4	265.8	249.8	235.6	224.3	214.0	208.3	203.6	199.8	194.6
60°	269.1	251.2	237.5	222.9	208.3	199.4	191.8	184.7	179.1	172.5	170.6
62.5°	236.1	221.0	208.8	194.6	182.4	174.4	167.3	160.7	153.6	143.3	140.4
65°	206.4	194.2	181.0	169.2	157.9	149.9	139.5	132.0	129.1	128.2	127.7
67.5°	179.1	167.3	156.0	143.7	133.4	124.4	118.3	117.4	115.5	115.0	113.6
70°	151.8	140.9	129.6	118.3	108.4	107.0	105.1	103.2	100.9	99.9	99.0
72.5°	127.3	115.9	104.6	96.1	93.3	91.4	89.5	87.7	86.2	85.3	84.8
75°	101.3	91.0	83.4	80.1	77.8	76.4	73.5	72.1	71.2	69.8	69.3
77.5°	77.3	70.7	66.9	65.0	62.2	60.8	58.9	57.5	56.1	56.1	55.1
80°	55.6	52.8	50.4	47.6	46.7	44.8	44.3	42.9	43.4	41.9	41.9
82.5°	40.1	36.3	34.4	33.5	32.5	31.1	30.6	30.2	30.2	29.2	29.2
85°	22.2	21.2	20.3	19.3	19.3	17.9	18.4	17.9	17.9	17.0	16.5
87.5°	9.0	8.5	7.5	7.5	7.5	7.1	7.1	6.6	6.6	6.6	6.1
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: P242394

CATALOG NUMBER: S122RDRP-S675D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1356.4	1356.4	1356.4	1356.4
2.5°	1289.0	1289.9	1288.5	1289.5
5°	1213.6	1207.9	1207.0	1205.6
7.5°	1124.5	1124.0	1121.2	1117.9
10°	1039.2	1036.9	1036.4	1033.1
12.5°	939.3	920.9	919.0	909.6
15°	816.8	813.9	804.5	798.4
17.5°	748.4	739.0	735.7	734.3
20°	682.9	674.4	673.0	672.1
22.5°	637.7	628.7	624.5	621.2
25°	584.9	581.6	579.7	578.8
27.5°	543.4	534.9	534.0	531.6
30°	509.0	506.6	503.3	500.5
32.5°	468.5	466.6	463.8	462.8
35°	440.7	434.1	431.2	427.0
37.5°	410.0	406.3	401.5	403.4
40°	373.3	370.9	370.0	369.5
42.5°	344.0	336.5	333.7	333.7
45°	314.4	308.2	304.0	304.5
47.5°	282.3	282.8	280.0	280.9
50°	260.6	257.8	255.9	256.4
52.5°	239.9	237.5	236.1	238.5
55°	216.8	214.0	213.5	213.0
57.5°	191.8	190.4	188.0	186.6
60°	164.5	160.7	156.0	155.5
62.5°	139.5	139.5	139.5	139.5
65°	126.8	126.3	126.8	127.3
67.5°	113.6	112.6	111.7	112.2
70°	98.0	97.6	97.1	97.1
72.5°	82.9	82.9	82.5	82.0
75°	68.8	67.9	67.9	67.9
77.5°	55.1	54.7	54.2	53.7
80°	41.5	41.0	40.5	40.5
82.5°	29.2	28.7	28.7	28.3
85°	17.0	17.4	17.0	17.9
87.5°	6.1	5.7	6.1	5.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242394  
 CATALOG NUMBER: S122RDRP-S675D830-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	16.83	18.28	17.20	18.60	18.91	22.73	24.18	23.10	24.50	24.81
	3H	17.94	19.24	18.32	19.57	19.93	23.89	25.19	24.27	25.52	25.88
	4H	18.40	19.62	18.80	19.96	20.34	24.28	25.50	24.68	25.85	26.23
	6H	18.77	19.89	19.18	20.26	20.65	24.55	25.67	24.96	26.04	26.43
	8H	18.89	19.96	19.32	20.35	20.75	24.62	25.69	25.05	26.08	26.48
	12H	18.97	19.99	19.40	20.37	20.80	24.66	25.68	25.09	26.06	26.49
4H	2H	17.54	18.76	17.94	19.11	19.49	22.70	23.91	23.10	24.26	24.64
	3H	18.81	19.82	19.22	20.22	20.62	23.99	25.00	24.40	25.40	25.80
	4H	19.36	20.27	19.80	20.68	21.12	24.49	25.39	24.92	25.81	26.25
	6H	19.83	20.62	20.29	21.06	21.52	24.87	25.66	25.33	26.10	26.56
	8H	19.99	20.73	20.46	21.17	21.64	24.98	25.72	25.45	26.16	26.63
	12H	20.11	20.76	20.60	21.24	21.72	25.06	25.71	25.54	26.19	26.67
8H	4H	19.71	20.44	20.17	20.88	21.35	24.47	25.20	24.94	25.65	26.12
	6H	20.28	20.88	20.77	21.37	21.85	24.90	25.50	25.40	25.99	26.47
	8H	20.50	21.04	21.02	21.55	22.04	25.05	25.59	25.56	26.10	26.59
	12H	20.69	21.16	21.20	21.66	22.22	25.17	25.65	25.68	26.14	26.71
12H	4H	19.75	20.40	20.23	20.88	21.35	24.45	25.10	24.93	25.58	26.05
	6H	20.34	20.88	20.86	21.39	21.88	24.87	25.41	25.39	25.92	26.41
	8H	20.62	21.09	21.13	21.59	22.15	25.05	25.53	25.57	26.02	26.59