

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: P243264

Luminaire Tested: S122RDRP-H675D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243264  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-H675D840-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

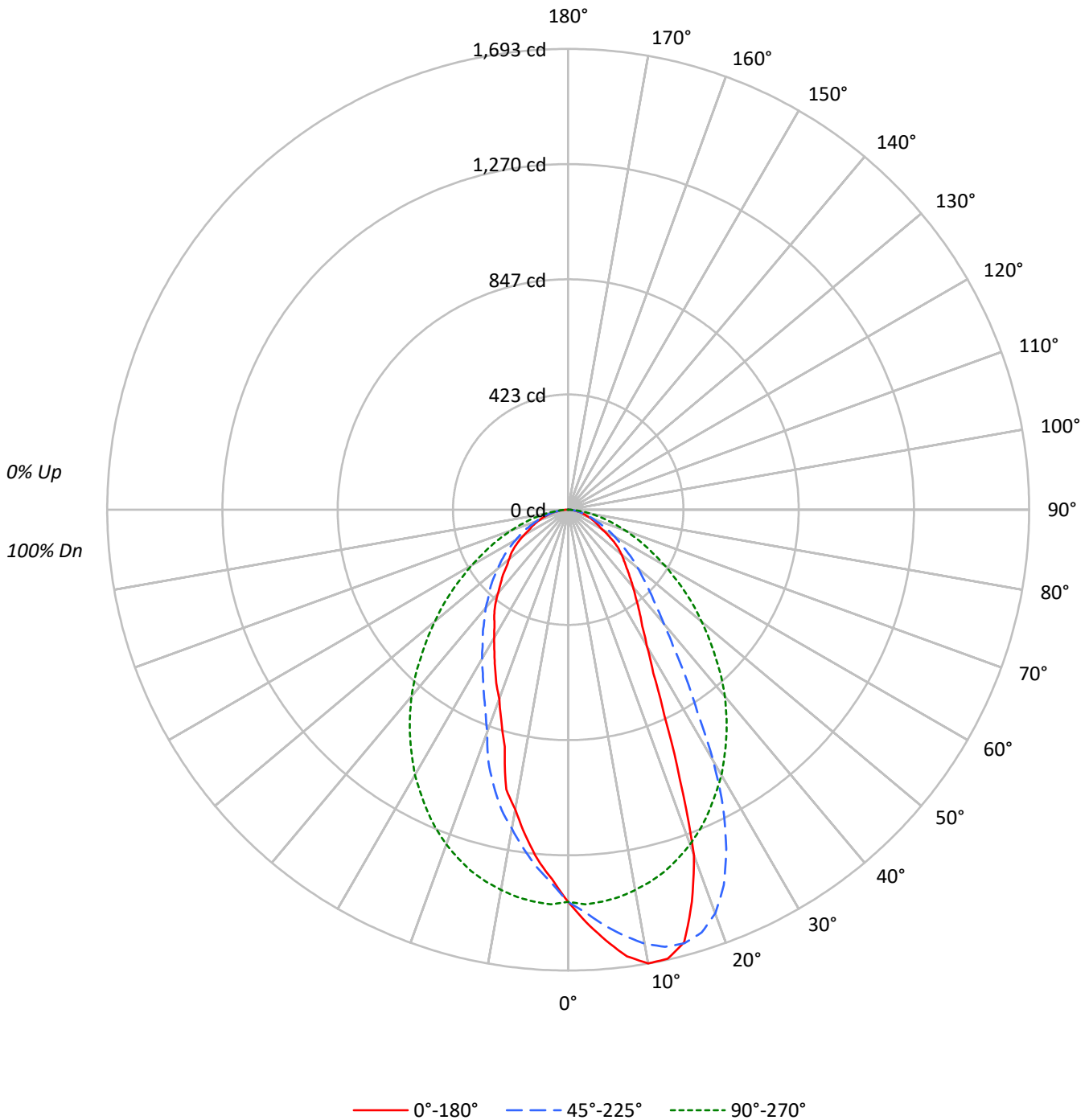
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2428.2 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99  
Luminous Opening: Rectangular (W 3.88' x L: 0.15' 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	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	86	83	79	84	80	78					76				
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	65	61	69	64	60					58				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	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					38				
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	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°	27444	27444	27444	27444	27444
5°	30379	29316	27629	25214	24663
10°	32738	31314	27438	23024	21630
15°	32447	32512	27120	20769	17775
20°	27371	31996	26519	17641	15004
25°	17597	28873	25704	15437	13356
30°	12713	23415	24752	13905	11967
35°	10589	17530	23560	12696	11006
40°	9190	13586	22249	11711	9963
45°	8205	11378	20586	10896	9118
50°	7571	9906	18959	10004	8383
55°	6794	8548	17315	9332	7983
60°	5425	7524	15589	8476	7185
65°	4971	6396	14003	7779	6630
70°	4567	5280	12369	6906	6304
75°	4165	4717	10826	6557	5969
80°	3620	4135	8995	6000	5583
85°	2885	3409	7212	5464	5158

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 27255 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.4	5.6
10°-20°	373.2	15.4
20°-30°	470.4	19.4
30°-40°	451.6	18.6
40°-50°	388.9	16.0
50°-60°	297.3	12.2
60°-70°	189.2	7.8
70°-80°	95.9	3.9
80°-90°	25.3	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°	979.9	40.4
0°-40°	1431.5	59.0
0°-60°	2117.8	87.2
0°-90°	2428.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1441	1441	1441	1441	1441	
5°	1589	1533	1445	1319	1290	155
15°	1645	1649	1375	1053	901	446
25°	837	1374	1223	734	636	400
35°	455	754	1013	546	473	287
45°	305	422	764	404	338	237
55°	205	257	521	281	240	180
65°	110	142	311	173	147	110
75°	57	64	147	89	81	60
85°	13	16	33	25	24	15
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°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1517.2	1519.1	1520.0	1517.6	1512.5	1512.9	1508.2	1500.2	1490.3	1481.3	1486.5
5°	1588.8	1591.2	1590.7	1586.5	1581.3	1576.6	1568.6	1557.2	1545.5	1533.2	1530.8
7.5°	1654.8	1660.0	1658.6	1650.6	1646.8	1640.2	1626.5	1613.8	1595.9	1578.5	1571.4
10°	1692.6	1696.8	1694.4	1692.6	1688.3	1681.7	1669.4	1657.2	1637.4	1619.0	1608.6
12.5°	1689.7	1693.5	1695.4	1697.3	1695.9	1693.5	1688.3	1677.9	1661.9	1644.9	1631.7
15°	1645.4	1639.3	1635.0	1646.8	1651.1	1667.1	1670.9	1672.3	1661.4	1648.7	1645.4
17.5°	1510.6	1512.5	1545.0	1539.8	1546.9	1586.0	1601.6	1622.8	1631.7	1628.9	1634.6
20°	1350.3	1328.1	1344.1	1367.7	1389.9	1446.9	1484.6	1518.1	1556.8	1578.5	1599.2
22.5°	1071.2	1071.6	1110.3	1149.0	1198.9	1260.7	1318.2	1382.3	1451.2	1493.1	1541.7
25°	837.3	859.9	876.9	893.9	966.5	1025.9	1121.6	1199.4	1294.2	1373.8	1455.4
27.5°	677.0	700.6	703.4	741.6	784.5	832.6	895.3	1017.9	1115.0	1231.9	1332.8
30°	578.0	582.7	592.6	602.5	634.1	678.9	746.3	823.2	931.1	1064.6	1199.9
32.5°	506.4	505.4	515.3	530.9	548.3	578.5	616.7	680.3	777.9	884.0	1041.9
35°	455.4	454.0	461.1	466.7	477.1	501.6	536.1	578.0	648.3	753.9	876.4
37.5°	407.3	410.2	414.4	420.5	434.2	449.8	472.9	507.8	563.4	633.2	750.6
40°	369.6	372.9	377.6	381.9	392.3	405.0	420.5	448.4	485.6	546.4	636.5
42.5°	335.7	337.1	340.9	347.0	354.5	365.9	380.9	402.2	433.3	475.7	554.4
45°	304.6	304.6	308.8	314.5	319.2	330.0	341.8	362.1	386.1	422.4	478.5
47.5°	278.2	278.6	281.0	281.9	287.1	297.0	309.8	325.8	345.6	373.4	425.7
50°	255.5	257.4	258.4	259.8	261.7	266.8	275.8	288.1	309.8	334.3	369.2
52.5°	232.0	234.3	236.2	239.0	241.9	242.3	248.9	256.9	272.0	297.5	325.8
55°	204.6	206.5	210.3	212.6	216.4	219.7	224.9	230.5	240.4	257.4	286.6
57.5°	173.5	174.0	177.7	180.1	187.6	195.2	199.9	206.0	213.1	224.9	247.0
60°	142.4	143.8	144.3	146.2	152.8	160.8	170.2	179.6	187.2	197.5	213.1
62.5°	125.4	125.9	127.3	129.2	129.7	133.4	136.3	147.6	160.8	171.1	181.5
65°	110.3	110.8	110.8	112.2	114.1	116.0	117.4	121.6	127.3	141.9	154.6
67.5°	96.2	95.7	96.6	98.1	98.5	100.0	102.3	104.7	108.4	112.7	125.9
70°	82.0	82.0	81.6	83.0	84.4	84.9	86.3	88.6	91.0	94.8	99.0
72.5°	67.9	68.8	68.8	69.8	70.2	72.1	73.1	74.0	77.3	79.2	82.5
75°	56.6	56.1	57.5	57.0	58.0	58.5	59.9	61.3	62.2	64.1	66.9
77.5°	45.3	44.3	45.3	44.8	45.7	46.7	46.7	48.1	49.0	50.9	52.3
80°	33.0	33.0	33.5	34.4	34.4	34.9	35.8	35.4	37.2	37.7	39.1
82.5°	22.6	23.1	23.1	23.6	23.6	23.6	24.5	24.5	25.0	25.9	26.4
85°	13.2	12.7	13.2	13.2	13.2	13.7	14.1	13.7	14.6	15.6	15.6
87.5°	3.8	3.8	4.2	4.7	4.7	5.2	5.2	5.2	5.7	5.7	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1486.5	1484.2	1478.0	1472.4	1462.0	1453.5	1450.7	1451.2	1438.4	1425.2	1421.5
5°	1527.5	1519.1	1506.8	1494.1	1478.5	1462.9	1453.0	1445.0	1425.2	1405.4	1394.1
7.5°	1561.5	1547.8	1529.9	1509.6	1489.3	1466.2	1450.2	1435.1	1407.8	1380.9	1366.3
10°	1592.6	1573.3	1548.8	1522.4	1495.5	1465.3	1442.2	1418.6	1384.2	1354.0	1329.1
12.5°	1622.3	1591.7	1566.7	1528.5	1498.8	1457.8	1426.2	1398.8	1358.3	1320.6	1292.8
15°	1625.1	1603.4	1570.0	1530.4	1485.1	1446.9	1407.3	1375.3	1329.1	1287.1	1239.5
17.5°	1624.7	1607.7	1572.8	1532.3	1478.0	1428.1	1385.2	1343.2	1290.4	1241.4	1200.3
20°	1607.7	1595.9	1565.7	1517.6	1462.9	1405.4	1357.8	1308.3	1246.5	1196.1	1151.3
22.5°	1567.6	1570.4	1546.9	1504.0	1445.0	1380.9	1325.8	1268.7	1205.5	1147.5	1091.0
25°	1499.7	1529.9	1522.8	1482.7	1420.0	1349.8	1287.1	1223.0	1155.1	1093.3	1041.0
27.5°	1415.3	1471.9	1484.2	1453.0	1393.2	1314.4	1243.2	1173.5	1104.2	1037.7	983.9
30°	1315.4	1399.8	1430.9	1413.9	1358.8	1276.2	1193.7	1125.4	1049.5	978.8	922.2
32.5°	1189.5	1307.8	1362.5	1367.7	1322.5	1233.8	1142.4	1068.8	991.0	924.1	863.2
35°	1049.0	1194.2	1283.3	1307.4	1274.8	1187.1	1091.0	1013.2	930.2	862.8	801.5
37.5°	907.6	1078.2	1195.2	1241.8	1220.1	1135.3	1033.4	954.7	872.7	803.8	746.3
40°	777.4	939.6	1091.4	1164.5	1157.9	1079.2	976.4	894.8	811.4	747.7	684.6
42.5°	661.0	817.5	984.4	1082.5	1087.7	1018.8	913.7	831.7	751.5	688.3	622.3
45°	569.1	706.7	872.2	989.1	1011.8	955.2	848.6	764.2	691.2	631.8	565.8
47.5°	495.5	602.5	756.2	893.4	933.5	884.0	782.2	702.0	633.2	582.3	520.0
50°	431.9	532.3	662.9	789.7	848.6	811.4	716.2	639.8	577.5	528.5	473.8
52.5°	375.3	453.1	566.2	687.9	767.1	733.1	652.0	581.8	523.3	477.6	431.9
55°	328.6	393.7	493.6	602.1	675.1	656.3	584.1	521.4	470.0	426.7	389.4
57.5°	280.5	335.2	415.8	512.5	584.1	581.3	521.9	461.6	421.0	380.0	353.1
60°	238.6	282.9	348.4	430.4	502.6	503.1	456.8	409.2	374.3	339.0	313.5
62.5°	201.3	236.7	293.7	359.7	417.2	431.9	397.4	356.0	327.7	300.3	278.6
65°	169.3	195.7	238.6	298.4	343.7	363.5	340.9	310.7	287.1	262.6	243.3
67.5°	139.6	158.9	190.5	237.6	282.9	297.5	288.1	265.0	248.0	227.7	213.1
70°	109.9	126.4	148.5	183.9	221.1	241.4	238.6	222.1	207.9	193.3	179.6
72.5°	87.2	96.6	113.6	139.1	168.8	191.4	192.4	183.9	172.1	159.8	150.9
75°	70.2	74.5	82.5	102.3	125.9	144.7	151.3	147.1	137.7	130.1	124.0
77.5°	54.2	58.0	63.2	72.6	91.0	105.6	113.6	114.1	108.4	101.8	97.1
80°	40.5	42.0	45.7	50.4	59.9	72.6	82.0	82.0	78.7	75.4	72.6
82.5°	27.8	29.2	31.1	33.5	38.2	45.7	54.2	55.6	53.7	52.8	49.0
85°	15.6	17.0	17.9	19.3	21.2	25.0	31.1	33.0	33.5	30.6	28.8
87.5°	6.1	6.1	6.6	7.1	7.5	9.0	11.3	14.1	14.1	12.7	12.3
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°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1416.7	1410.1	1401.7	1394.1	1383.7	1373.4	1371.5	1375.3	1376.2	1371.5	1372.9
5°	1383.3	1371.0	1360.6	1343.7	1332.8	1318.7	1309.3	1309.3	1309.3	1302.2	1295.6
7.5°	1348.4	1331.9	1312.1	1296.1	1273.9	1255.5	1246.5	1242.3	1233.8	1226.7	1218.7
10°	1307.8	1284.7	1260.2	1235.2	1215.9	1190.4	1175.4	1165.9	1151.3	1145.2	1133.4
12.5°	1260.2	1237.1	1207.4	1166.9	1161.2	1130.1	1108.9	1091.4	1073.5	1058.9	1053.7
15°	1222.0	1182.0	1142.4	1113.6	1071.6	1053.2	1022.1	1019.3	1004.7	961.8	928.3
17.5°	1160.3	1124.4	1080.6	1048.5	1015.1	974.0	941.0	908.5	877.4	847.2	846.3
20°	1105.6	1063.6	1022.1	987.2	928.8	870.3	850.0	820.3	802.0	777.9	770.8
22.5°	1045.7	1001.9	950.0	899.1	830.7	793.9	771.8	748.2	729.8	719.0	708.1
25°	985.4	941.5	872.7	810.0	763.3	734.5	715.7	690.2	677.0	667.6	653.4
27.5°	926.4	870.8	798.2	748.2	710.5	678.0	661.0	640.2	625.6	613.4	604.4
30°	868.0	791.6	729.8	691.2	652.5	632.2	610.1	594.5	583.7	572.4	557.7
32.5°	803.8	723.7	683.6	636.0	613.4	584.1	568.1	552.1	537.9	529.9	524.7
35°	729.4	664.8	628.9	594.0	565.3	546.0	523.3	513.4	505.9	490.3	483.7
37.5°	666.2	619.5	581.8	550.7	524.3	503.5	493.1	476.2	465.3	460.1	453.1
40°	613.8	572.4	539.8	508.2	486.1	471.0	452.6	443.6	429.5	424.3	418.7
42.5°	568.6	530.4	496.4	472.4	453.1	432.3	422.9	407.8	401.7	389.0	384.2
45°	522.9	488.9	459.2	435.6	417.2	404.5	387.5	378.1	367.3	360.7	347.9
47.5°	477.1	446.9	422.4	402.6	386.6	371.0	356.9	348.9	335.2	328.1	321.5
50°	441.8	412.5	389.4	369.6	353.1	337.6	328.6	315.4	303.2	295.1	292.8
52.5°	399.8	374.3	353.1	338.0	321.5	310.2	298.0	283.3	277.2	269.2	267.3
55°	362.6	341.8	323.9	307.9	293.7	281.0	266.8	256.5	251.8	248.0	245.2
57.5°	327.7	307.9	291.4	276.7	264.5	251.3	239.5	233.4	229.1	224.9	222.1
60°	293.2	275.3	260.2	248.0	235.3	222.5	214.0	208.9	205.6	199.4	197.5
62.5°	262.6	246.1	230.5	219.2	207.4	197.5	190.5	183.4	178.2	173.5	163.6
65°	229.1	214.5	202.7	191.4	180.1	172.6	164.5	156.5	149.9	149.9	149.9
67.5°	199.4	186.7	174.4	164.5	154.6	145.7	137.7	137.2	134.8	133.9	132.5
70°	169.3	160.3	149.0	138.1	128.2	124.0	122.6	120.2	117.4	116.9	115.0
72.5°	141.9	131.5	121.2	111.7	109.9	108.0	105.1	102.8	100.9	99.5	98.5
75°	116.0	105.6	97.1	94.8	92.4	89.1	86.7	84.9	83.9	83.9	83.4
77.5°	88.6	82.5	78.7	75.0	73.1	71.2	69.8	68.8	67.4	67.9	66.9
80°	65.1	63.2	59.9	57.5	56.6	54.7	53.7	53.3	52.3	52.3	51.9
82.5°	46.7	43.4	42.0	40.5	39.6	38.7	39.1	38.7	38.2	37.7	38.2
85°	26.9	26.4	25.5	25.5	25.5	25.0	25.0	25.0	24.5	24.0	24.0
87.5°	11.8	12.3	12.3	11.3	12.7	12.7	12.3	12.3	11.8	12.7	11.8
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: P243264

CATALOG NUMBER: S122RDRP-H675D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1440.8	1440.8	1440.8	1440.8
2.5°	1366.8	1366.3	1363.5	1358.8
5°	1292.8	1290.9	1286.1	1289.9
7.5°	1213.5	1208.4	1203.6	1206.0
10°	1128.7	1126.8	1124.0	1118.3
12.5°	1034.9	1042.4	1034.4	1052.3
15°	895.8	929.3	887.3	901.4
17.5°	826.5	826.9	821.3	814.7
20°	761.4	744.9	751.0	740.2
22.5°	698.7	694.9	693.0	689.3
25°	642.6	635.5	633.2	635.5
27.5°	601.1	597.8	588.9	587.4
30°	549.3	547.8	545.0	544.1
32.5°	516.7	510.6	509.2	503.5
35°	480.4	477.1	474.8	473.3
37.5°	444.1	442.2	438.0	440.3
40°	414.4	405.0	401.2	400.7
42.5°	381.9	376.7	369.2	366.8
45°	344.2	341.8	339.5	338.5
47.5°	311.2	309.8	306.9	305.5
50°	287.6	283.8	283.3	282.9
52.5°	265.0	263.5	262.1	264.0
55°	243.7	241.9	240.4	240.4
57.5°	220.6	217.3	214.5	215.0
60°	193.8	191.9	189.5	188.6
62.5°	162.7	162.7	162.2	162.2
65°	148.0	147.1	146.6	147.1
67.5°	132.0	131.1	129.7	130.1
70°	113.6	113.2	113.6	113.2
72.5°	97.1	96.6	97.1	98.1
75°	82.0	81.6	81.1	81.1
77.5°	66.5	66.0	65.1	66.0
80°	51.9	51.4	50.9	50.9
82.5°	36.8	37.2	36.8	36.8
85°	24.0	24.5	24.0	23.6
87.5°	12.3	12.7	11.8	11.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243264  
 CATALOG NUMBER: S122RDRP-H675D840-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	16.35	17.80	16.71	18.12	18.43	22.68	24.14	23.04	24.45	24.76
	3H	17.52	18.82	17.90	19.15	19.52	23.93	25.23	24.31	25.56	25.93
	4H	17.98	19.20	18.38	19.55	19.93	24.36	25.58	24.76	25.93	26.31
	6H	18.31	19.43	18.72	19.80	20.19	24.66	25.78	25.07	26.15	26.54
	8H	18.41	19.48	18.84	19.87	20.27	24.74	25.81	25.17	26.20	26.61
	12H	18.46	19.48	18.89	19.87	20.30	24.79	25.81	25.22	26.20	26.63
4H	2H	17.07	18.29	17.47	18.64	19.02	22.66	23.88	23.06	24.23	24.61
	3H	18.40	19.41	18.81	19.81	20.21	24.05	25.06	24.46	25.46	25.86
	4H	18.95	19.86	19.38	20.28	20.72	24.58	25.48	25.01	25.90	26.34
	6H	19.38	20.17	19.84	20.61	21.08	24.99	25.78	25.45	26.22	26.69
	8H	19.51	20.25	19.98	20.69	21.16	25.12	25.86	25.59	26.31	26.77
	12H	19.59	20.25	20.08	20.73	21.20	25.22	25.87	25.70	26.35	26.82
8H	4H	19.30	20.03	19.76	20.48	20.95	24.57	25.31	25.04	25.75	26.22
	6H	19.82	20.43	20.32	20.92	21.40	25.04	25.64	25.54	26.14	26.62
	8H	20.01	20.55	20.52	21.06	21.55	25.21	25.75	25.73	26.26	26.75
	12H	20.14	20.62	20.65	21.11	21.68	25.35	25.83	25.86	26.32	26.89
12H	4H	19.34	19.99	19.82	20.47	20.95	24.55	25.21	25.04	25.69	26.16
	6H	19.88	20.43	20.40	20.94	21.43	25.02	25.56	25.53	26.07	26.56
	8H	20.12	20.60	20.63	21.09	21.66	25.22	25.70	25.73	26.19	26.76