

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: P242301

Luminaire Tested: S122DRP-S675D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DRP-S675D840-X4F0-XX-UDD-A-W  
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

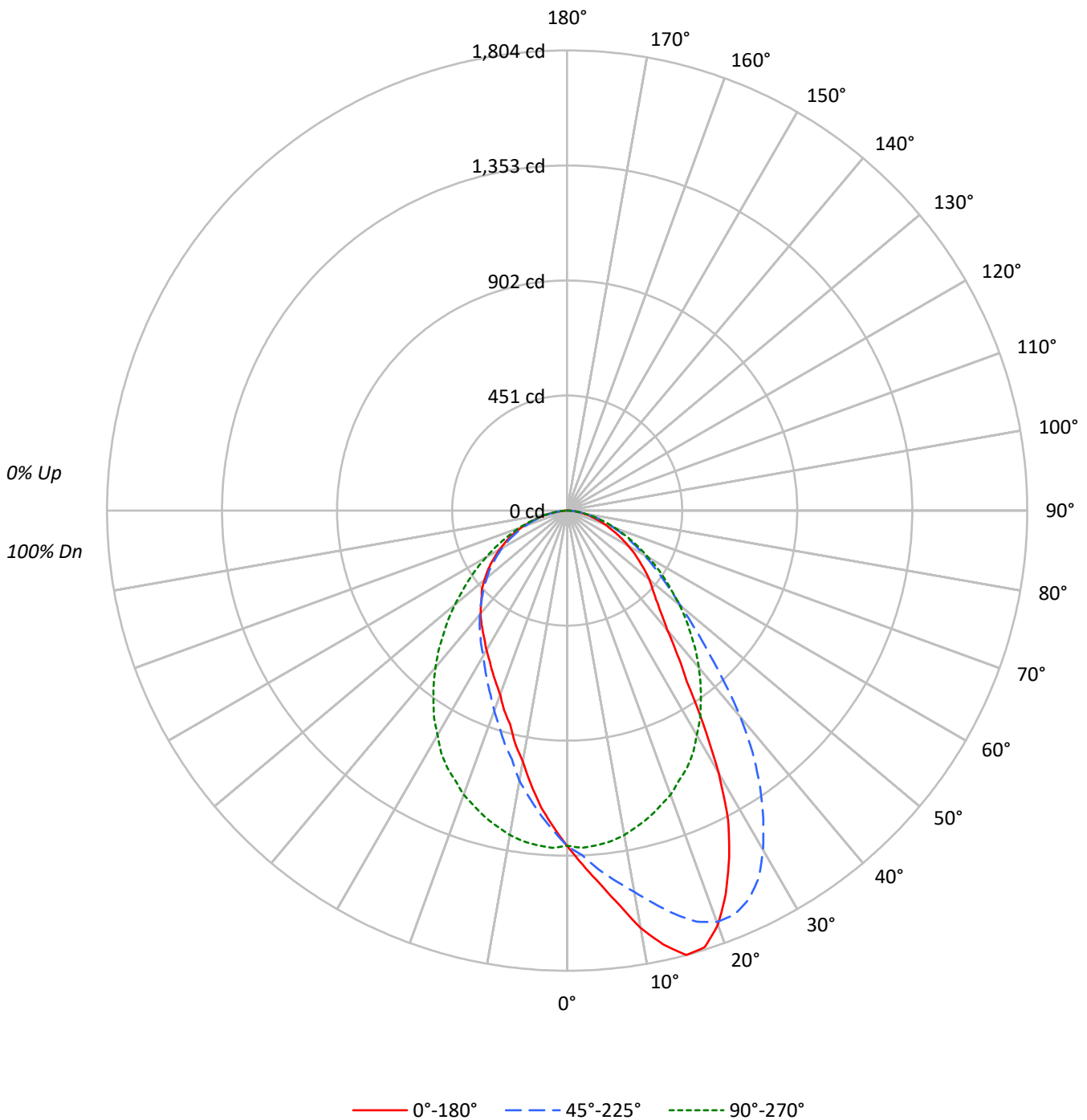
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2898.7 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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

	0°	45°	90°	135°	180°
0°	25029	25029	25029	25029	25029
5°	28059	27008	25191	22883	22323
10°	32153	29360	24985	20813	19320
15°	35570	32315	24527	18651	17069
20°	35029	34784	24034	16932	15559
25°	31584	35363	23381	15548	14605
30°	26101	33777	22335	14472	13905
35°	19023	30647	21242	13810	13410
40°	15193	26280	19952	13236	13134
45°	13278	21017	18460	12650	12760
50°	12481	17149	17015	12167	12511
55°	11503	14907	15545	11723	12174
60°	10541	13272	13985	11196	11657
65°	9605	11993	12588	10515	11150
70°	8716	10715	11222	9702	10403
75°	7727	9479	9700	8699	9214
80°	6647	8029	8029	7141	7426
85°	5966	6513	5966	4961	4415

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 65°  
 Vertical Angle: 45°  
 Luminance: 32198 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	4.3
10°-20°	364.3	12.6
20°-30°	528.7	18.2
30°-40°	557.3	19.2
40°-50°	493.1	17.0
50°-60°	393.6	13.6
60°-70°	267.4	9.2
70°-80°	136.8	4.7
80°-90°	32.3	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°	1018.1	35.1
0°-40°	1575.4	54.3
0°-60°	2462.2	84.9
0°-90°	2898.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1314	1314	1314	1314	1314	
5°	1468	1412	1318	1197	1168	146
15°	1804	1639	1244	946	866	500
25°	1503	1683	1112	740	695	682
35°	818	1318	914	594	577	530
45°	493	780	685	470	474	386
55°	346	449	468	353	367	311
65°	213	266	279	233	247	212
75°	105	129	132	118	125	112
85°	27	30	27	23	20	31
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°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1389.7	1390.2	1391.2	1383.2	1382.2	1382.2	1375.1	1369.0	1362.0	1352.4	1353.4
5°	1467.5	1473.1	1475.1	1469.0	1459.9	1458.9	1450.3	1436.2	1423.1	1412.5	1404.9
7.5°	1557.4	1559.4	1555.4	1548.3	1542.2	1530.6	1516.5	1502.8	1482.6	1464.5	1451.3
10°	1662.4	1665.5	1656.9	1645.3	1635.7	1621.5	1598.3	1574.6	1545.8	1518.0	1495.8
12.5°	1742.2	1750.8	1739.2	1740.2	1722.0	1701.3	1672.5	1663.4	1620.0	1578.6	1554.4
15°	1803.8	1803.3	1804.3	1794.7	1782.6	1779.6	1750.3	1718.5	1661.4	1638.7	1599.3
17.5°	1794.7	1801.8	1805.8	1802.8	1800.8	1796.2	1783.6	1759.9	1728.6	1690.2	1643.2
20°	1728.1	1738.2	1739.7	1751.3	1757.9	1766.5	1770.0	1764.4	1746.8	1716.0	1676.6
22.5°	1625.1	1626.1	1631.6	1651.3	1667.5	1692.2	1705.3	1730.1	1726.1	1714.9	1683.6
25°	1502.8	1497.8	1515.5	1524.6	1557.4	1591.7	1616.5	1643.7	1668.0	1682.6	1673.0
27.5°	1367.5	1356.9	1383.7	1407.4	1430.6	1464.0	1501.3	1545.8	1579.6	1625.6	1636.7
30°	1186.7	1191.3	1216.5	1242.3	1282.7	1335.2	1378.6	1428.6	1482.6	1535.7	1572.5
32.5°	991.8	1012.5	1026.1	1069.1	1103.4	1163.5	1232.2	1297.8	1368.5	1430.6	1492.7
35°	818.1	838.3	860.5	889.3	939.3	997.4	1059.5	1143.8	1235.7	1318.0	1385.7
37.5°	708.0	704.5	718.1	739.3	782.2	832.2	906.0	991.8	1101.9	1193.3	1284.2
40°	611.0	609.0	618.1	637.3	668.1	702.4	765.1	838.3	938.8	1056.9	1170.6
42.5°	544.4	546.4	550.4	562.6	581.2	608.0	650.9	710.5	800.4	910.0	1034.2
45°	492.9	496.4	502.0	508.5	520.6	543.9	570.1	614.6	687.3	780.2	900.4
47.5°	452.5	453.5	459.5	465.6	472.7	486.8	510.0	538.3	593.9	673.2	780.7
50°	421.2	417.6	421.7	426.2	433.8	442.9	457.0	483.3	517.6	578.7	665.1
52.5°	382.8	383.8	387.3	388.3	394.9	404.0	416.6	432.8	463.1	507.5	574.7
55°	346.4	348.9	351.0	354.0	360.1	366.6	376.7	388.8	413.1	448.9	501.5
57.5°	312.1	313.1	314.6	321.2	324.7	330.8	340.9	352.0	368.1	395.9	437.3
60°	276.7	276.7	280.8	283.3	288.3	294.4	302.0	312.6	326.7	348.4	380.3
62.5°	244.4	243.9	244.9	249.5	253.0	258.6	266.1	274.7	287.8	306.5	331.3
65°	213.1	212.1	215.1	216.1	220.2	225.7	231.8	241.4	252.0	266.1	289.4
67.5°	181.8	183.3	185.3	187.4	189.4	195.9	200.0	207.0	216.1	228.3	244.4
70°	156.5	156.5	156.5	158.1	161.1	164.1	168.2	173.7	182.3	192.4	206.5
72.5°	128.3	130.3	132.3	130.8	134.8	136.3	141.4	143.9	152.0	157.6	169.7
75°	105.0	105.0	105.0	107.6	109.1	110.6	113.6	116.7	120.7	128.8	135.3
77.5°	82.8	82.3	82.8	83.3	85.3	87.4	88.4	90.9	94.9	99.0	105.0
80°	60.6	61.6	62.1	63.1	63.1	64.1	64.6	68.2	70.7	73.2	76.8
82.5°	43.4	43.4	43.4	43.4	43.9	44.4	46.0	46.5	47.0	49.0	51.5
85°	27.3	26.8	26.8	27.8	27.3	27.3	28.3	29.3	29.3	29.8	31.3
87.5°	13.1	13.1	13.6	13.1	13.1	13.6	13.6	13.1	13.6	14.1	14.6
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°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1356.9	1352.9	1350.3	1341.3	1333.2	1325.1	1322.6	1323.6	1312.5	1301.9	1297.3
5°	1400.8	1390.7	1381.1	1367.5	1351.4	1333.7	1324.6	1317.5	1299.8	1280.7	1269.5
7.5°	1440.7	1427.6	1410.4	1386.2	1364.0	1337.7	1321.6	1307.9	1283.2	1257.4	1241.8
10°	1476.6	1456.9	1433.2	1401.8	1373.1	1339.2	1315.5	1291.8	1261.5	1229.1	1208.9
12.5°	1507.4	1479.1	1455.9	1413.5	1378.1	1333.7	1304.4	1268.5	1236.2	1196.3	1176.6
15°	1559.9	1510.9	1466.5	1421.0	1379.1	1320.0	1288.7	1243.8	1201.9	1154.4	1131.7
17.5°	1598.8	1545.8	1477.1	1422.0	1375.6	1312.5	1267.5	1214.0	1166.5	1114.0	1083.7
20°	1631.1	1568.0	1492.7	1424.1	1365.5	1290.8	1240.8	1185.7	1127.6	1066.5	1033.2
22.5°	1650.3	1583.1	1508.9	1416.5	1345.3	1273.1	1206.9	1145.3	1086.2	1019.1	983.7
25°	1651.3	1590.7	1511.9	1413.0	1329.1	1246.8	1171.1	1112.5	1041.3	979.7	928.7
27.5°	1634.6	1586.7	1510.4	1405.9	1310.4	1216.0	1133.7	1069.6	994.3	927.7	876.7
30°	1597.8	1572.5	1498.8	1393.8	1287.2	1183.7	1090.8	1015.5	940.8	873.1	820.6
32.5°	1540.7	1540.2	1477.6	1376.6	1262.5	1142.8	1045.8	969.6	884.7	818.6	769.1
35°	1462.4	1486.7	1445.8	1349.3	1230.2	1104.4	1000.4	913.5	827.7	764.0	717.1
37.5°	1363.0	1419.0	1402.9	1313.0	1188.7	1063.5	950.4	859.5	777.2	711.5	665.6
40°	1259.4	1336.2	1347.3	1270.0	1144.3	1014.5	892.8	802.4	722.6	664.1	617.6
42.5°	1148.3	1241.3	1276.6	1218.5	1095.8	963.0	841.3	746.9	668.1	611.5	571.6
45°	1021.6	1140.3	1195.3	1160.0	1040.8	905.4	780.2	685.3	613.6	560.0	528.2
47.5°	907.0	1035.7	1105.9	1089.3	981.7	847.4	723.6	631.2	560.0	516.6	486.8
50°	783.7	917.1	1006.4	1010.5	917.1	784.2	660.0	574.2	510.0	470.1	446.9
52.5°	676.7	802.4	901.9	927.7	844.8	718.6	603.0	517.6	463.1	427.2	407.0
55°	586.3	693.9	801.9	841.3	773.1	651.9	543.4	468.1	415.1	389.9	371.7
57.5°	500.4	594.9	697.4	738.8	695.4	588.8	483.8	417.6	372.7	350.0	335.8
60°	435.3	506.0	594.9	646.9	610.5	518.1	429.2	367.1	331.8	312.1	299.0
62.5°	374.7	435.3	507.0	553.5	537.8	452.0	374.7	321.7	292.4	274.2	265.6
65°	319.2	368.6	426.7	470.6	457.5	391.4	326.2	279.3	255.0	240.4	232.8
67.5°	271.7	309.6	351.0	391.4	380.3	331.3	276.2	238.4	219.7	206.5	202.0
70°	227.2	254.5	290.4	321.2	312.6	274.2	232.8	201.5	185.8	175.2	170.7
72.5°	184.8	206.0	231.3	255.0	250.0	219.7	186.8	165.1	154.0	144.4	140.9
75°	145.9	163.1	179.8	196.4	194.9	170.2	150.0	131.8	122.2	114.6	113.1
77.5°	114.1	124.7	136.9	147.5	144.9	128.8	112.1	101.0	93.4	88.4	87.9
80°	82.3	87.9	95.9	103.0	99.5	93.4	80.8	73.2	68.2	63.1	61.1
82.5°	54.0	59.6	63.6	66.7	64.1	58.6	52.0	47.5	44.9	41.9	41.4
85°	31.3	34.3	36.4	37.4	36.4	32.8	29.3	27.3	24.7	23.2	22.7
87.5°	15.1	15.1	15.1	16.2	14.6	14.6	12.6	11.1	10.6	10.1	9.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1292.3	1289.2	1278.6	1273.1	1264.0	1255.4	1249.8	1252.4	1254.4	1253.4	1251.9
5°	1259.4	1249.8	1235.2	1222.6	1213.5	1196.8	1189.8	1186.2	1183.2	1179.7	1176.1
7.5°	1223.1	1209.4	1188.7	1172.6	1156.4	1135.2	1124.6	1118.6	1112.0	1104.4	1097.3
10°	1183.7	1162.5	1140.3	1115.0	1094.8	1076.1	1059.5	1048.4	1038.3	1028.7	1021.6
12.5°	1142.3	1117.0	1088.3	1051.4	1028.7	999.9	1000.9	979.2	962.0	957.0	948.4
15°	1097.8	1063.5	1028.7	987.8	970.1	945.8	930.7	915.5	901.9	892.3	889.8
17.5°	1049.4	1003.4	969.6	939.3	910.5	885.8	872.6	860.5	848.9	834.7	834.2
20°	992.3	953.9	916.1	890.3	860.5	835.3	818.1	806.0	796.4	788.8	782.2
22.5°	938.3	895.3	861.5	832.7	803.4	784.2	771.6	760.0	752.4	743.8	737.8
25°	879.7	846.9	809.0	777.2	752.9	739.8	728.7	718.6	713.5	708.0	700.9
27.5°	829.7	793.3	756.0	731.2	709.0	697.4	688.8	681.2	676.7	673.2	668.6
30°	776.2	739.3	711.5	687.3	669.6	658.0	653.0	648.9	643.4	641.3	639.3
32.5°	724.7	692.3	669.6	649.4	632.8	626.2	621.6	618.1	614.1	612.0	607.5
35°	676.7	648.9	625.7	614.1	600.4	593.9	590.3	585.3	581.2	579.2	578.7
37.5°	630.7	605.5	589.8	574.2	567.6	564.1	559.0	555.5	554.0	553.5	553.0
40°	586.3	566.6	553.0	540.8	538.3	532.3	528.2	525.2	525.2	525.7	525.2
42.5°	545.9	528.7	517.1	507.0	504.0	500.9	496.9	497.4	498.4	500.4	498.4
45°	505.0	492.4	483.8	478.7	473.2	469.6	469.1	470.6	471.2	471.7	473.2
47.5°	466.6	458.5	450.5	444.4	441.9	441.4	440.4	442.9	445.4	445.9	448.4
50°	433.3	423.7	417.1	413.6	411.6	410.6	411.6	414.6	416.6	419.1	420.7
52.5°	395.9	389.9	385.8	383.3	382.8	383.8	383.8	387.3	390.9	391.4	391.9
55°	362.1	357.0	356.0	351.5	353.5	353.0	355.5	357.5	360.6	363.6	364.1
57.5°	327.7	323.2	320.2	320.7	321.2	323.2	325.2	328.7	332.3	335.8	335.8
60°	293.4	291.4	289.9	289.9	290.9	293.9	296.4	300.0	302.0	304.0	305.5
62.5°	262.1	260.1	258.6	259.6	262.6	264.1	267.1	268.7	270.7	272.7	273.2
65°	228.8	227.8	229.3	230.3	230.8	233.3	236.8	238.4	240.4	241.4	244.9
67.5°	198.5	198.5	198.0	199.5	202.5	203.0	206.5	210.6	210.6	212.6	215.1
70°	167.7	168.7	169.7	170.7	173.2	174.2	176.7	178.3	180.3	181.8	183.3
72.5°	139.4	139.4	140.4	139.9	141.9	144.4	146.4	148.0	150.0	152.0	153.5
75°	111.6	111.6	112.6	113.1	115.6	118.2	117.7	118.7	120.7	122.7	123.7
77.5°	86.4	85.3	86.4	86.9	87.9	89.9	90.4	91.9	94.4	93.9	94.9
80°	62.1	60.6	62.1	62.6	62.6	65.1	65.1	66.2	67.7	66.2	67.7
82.5°	39.9	39.4	40.4	40.4	41.4	40.9	41.9	41.9	43.4	42.9	43.4
85°	22.2	21.7	22.2	21.7	22.2	22.7	22.7	22.2	22.2	23.2	21.7
87.5°	8.6	8.1	7.6	7.6	7.1	6.6	6.1	6.1	6.1	5.0	5.0
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: P242301

CATALOG NUMBER: S122DRP-S675D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1314.0	1314.0	1314.0	1314.0
2.5°	1246.8	1245.8	1245.8	1241.3
5°	1169.0	1167.5	1165.0	1167.5
7.5°	1095.3	1088.8	1087.7	1082.7
10°	1013.0	1009.0	1008.5	998.9
12.5°	950.4	939.3	941.8	937.3
15°	876.2	876.2	874.1	865.6
17.5°	823.1	822.6	818.1	821.1
20°	776.7	773.6	767.6	767.6
22.5°	732.7	733.2	726.7	729.2
25°	700.4	696.4	693.4	694.9
27.5°	667.1	665.6	665.1	660.5
30°	638.8	633.8	634.8	632.2
32.5°	606.5	605.5	604.0	601.9
35°	577.7	578.2	575.7	576.7
37.5°	552.0	554.0	552.5	552.5
40°	526.7	526.7	526.7	528.2
42.5°	502.5	501.5	500.4	499.9
45°	474.2	475.7	476.2	473.7
47.5°	449.4	449.9	449.4	452.5
50°	423.2	422.2	423.2	422.2
52.5°	395.4	395.9	394.9	394.9
55°	366.1	367.1	366.6	366.6
57.5°	336.3	336.8	337.8	335.3
60°	305.0	307.5	307.0	306.0
62.5°	276.2	276.7	276.7	276.7
65°	246.4	247.4	245.9	247.4
67.5°	214.1	214.6	215.6	216.1
70°	184.3	183.8	185.3	186.8
72.5°	153.0	154.5	153.5	154.5
75°	122.7	124.2	123.7	125.2
77.5°	93.9	94.4	94.4	94.9
80°	67.7	66.7	65.6	67.7
82.5°	41.9	42.9	41.9	41.4
85°	21.7	21.2	20.2	20.2
87.5°	5.0	4.5	4.5	4.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242301  
 CATALOG NUMBER: S122DRP-S675D840-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	19.48	21.00	19.85	21.31	21.63	22.74	24.25	23.10	24.57	24.88
	3H	20.89	22.25	21.27	22.58	22.94	23.75	25.11	24.12	25.44	25.80
	4H	21.39	22.67	21.79	23.02	23.40	24.07	25.34	24.46	25.69	26.07
	6H	21.75	22.93	22.16	23.29	23.69	24.26	25.44	24.67	25.81	26.20
	8H	21.86	22.98	22.29	23.37	23.77	24.30	25.43	24.73	25.82	26.22
	12H	21.93	23.01	22.36	23.39	23.82	24.32	25.40	24.75	25.78	26.21
4H	2H	20.34	21.62	20.74	21.97	22.35	22.95	24.22	23.35	24.57	24.95
	3H	21.90	22.96	22.31	23.36	23.76	24.29	25.35	24.70	25.75	26.15
	4H	22.49	23.44	22.92	23.86	24.30	24.80	25.75	25.23	26.17	26.60
	6H	22.94	23.77	23.39	24.21	24.67	25.13	25.96	25.59	26.40	26.86
	8H	23.08	23.85	23.54	24.29	24.76	25.20	25.98	25.67	26.42	26.89
	12H	23.18	23.87	23.66	24.35	24.82	25.24	25.94	25.73	26.42	26.89
8H	4H	22.92	23.70	23.39	24.14	24.61	24.92	25.70	25.39	26.14	26.61
	6H	23.46	24.10	23.95	24.59	25.06	25.36	26.00	25.86	26.49	26.97
	8H	23.65	24.22	24.16	24.73	25.22	25.49	26.07	26.01	26.58	27.07
	12H	23.81	24.31	24.32	24.81	25.37	25.58	26.09	26.09	26.58	27.15
12H	4H	22.98	23.67	23.46	24.15	24.62	24.92	25.61	25.40	26.09	26.56
	6H	23.53	24.11	24.05	24.62	25.10	25.36	25.94	25.88	26.45	26.93
	8H	23.78	24.28	24.29	24.77	25.34	25.54	26.05	26.05	26.54	27.10