

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: P242399

Luminaire Tested: S122RDRP-S675D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242399
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-S675D835-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

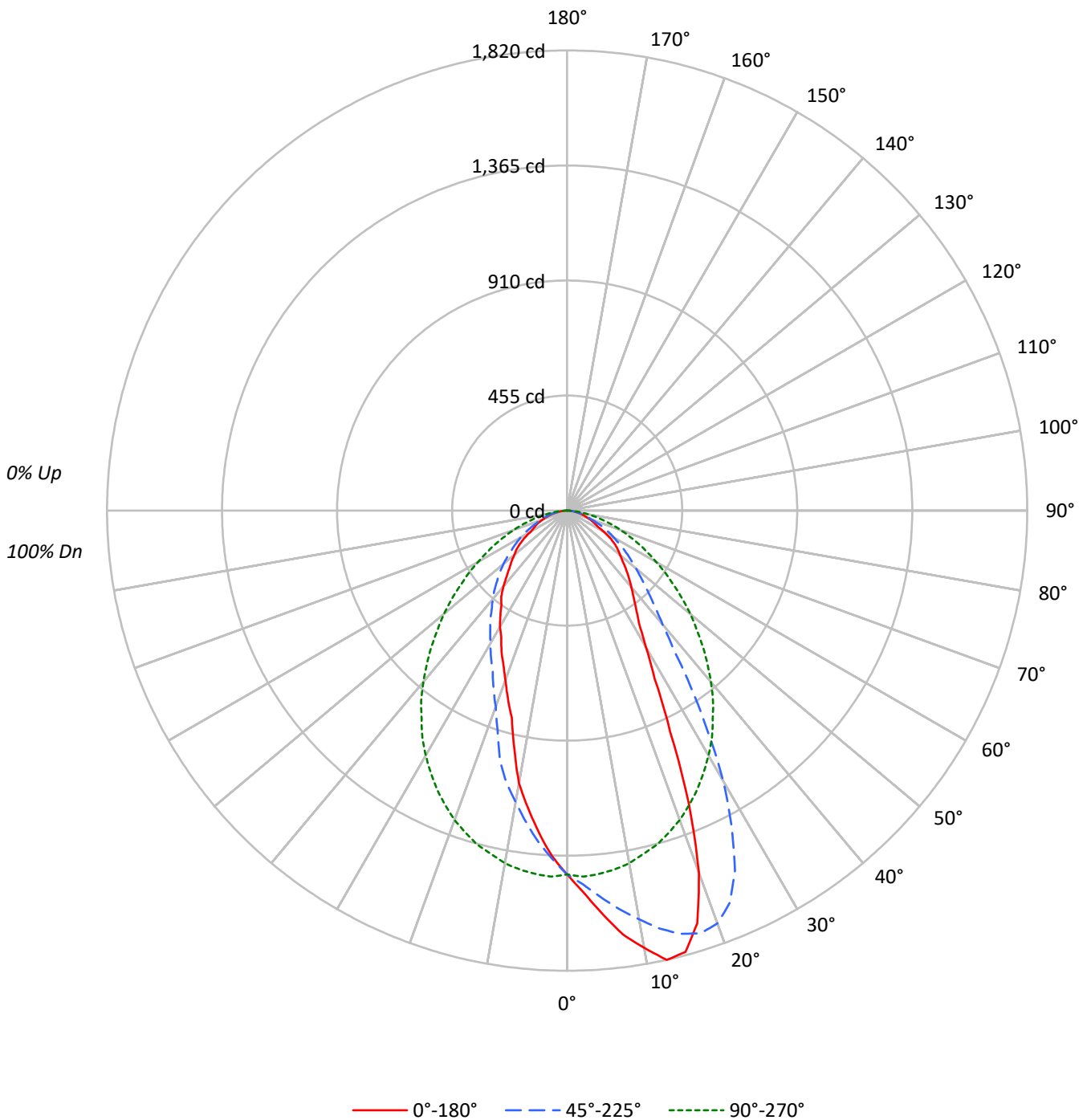
Lumens per Lamp: N/A
Luminaire Lumens: 2486.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{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	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°	27412	27412	27412	27412	27412
5°	30614	29352	27583	25136	24457
10°	33966	31751	27390	22651	21200
15°	35635	34176	26988	20205	16703
20°	30894	35232	26394	16733	14453
25°	20262	33009	25580	14649	12904
30°	13637	27176	24592	13340	11679
35°	11045	19846	23348	12301	10534
40°	9822	14583	21993	11351	9747
45°	8889	12122	20405	10519	8701
50°	8090	10505	18832	9720	8060
55°	7605	9298	17086	8784	7505
60°	6362	8095	15486	8057	6286
65°	5363	7211	14062	7166	6085
70°	4957	5736	12558	6321	5736
75°	4636	5188	10929	5961	5299
80°	4278	4717	8995	5210	4717
85°	3934	4043	7103	4152	4152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 29728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	5.5
10°-20°	381.0	15.3
20°-30°	490.3	19.7
30°-40°	465.1	18.7
40°-50°	398.6	16.0
50°-60°	303.6	12.2
60°-70°	191.5	7.7
70°-80°	95.5	3.8
80°-90°	24.6	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°	1007.8	40.5
0°-40°	1473.0	59.2
0°-60°	2175.1	87.5
0°-90°	2486.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2486.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1439	1439	1439	1439	1439	
5°	1601	1535	1443	1315	1279	158
15°	1807	1733	1369	1025	847	491
25°	964	1571	1217	697	614	455
35°	475	854	1004	529	453	302
45°	330	450	758	390	323	255
55°	229	280	514	264	226	202
65°	119	160	312	159	135	120
75°	63	70	148	81	72	67
85°	18	18	32	19	19	20
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°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1512.1	1513.6	1515.1	1511.6	1511.6	1508.6	1502.1	1497.1	1483.1	1481.1	1481.1
5°	1601.1	1600.1	1602.1	1595.6	1586.6	1584.6	1575.1	1562.6	1549.6	1535.1	1532.1
7.5°	1691.1	1685.1	1682.6	1685.6	1676.1	1663.1	1647.1	1632.1	1609.6	1591.1	1579.6
10°	1756.1	1772.6	1762.6	1745.1	1748.6	1725.1	1712.6	1691.1	1673.1	1641.6	1634.6
12.5°	1820.1	1824.1	1822.6	1814.6	1808.1	1793.6	1775.6	1757.6	1720.6	1693.1	1664.1
15°	1807.1	1816.6	1819.1	1816.1	1818.6	1817.6	1808.6	1793.1	1764.1	1733.1	1706.1
17.5°	1711.1	1722.1	1731.1	1739.1	1751.6	1776.1	1783.6	1786.6	1774.6	1752.6	1730.1
20°	1524.1	1513.1	1559.1	1582.6	1602.6	1652.6	1695.6	1712.1	1738.6	1738.1	1733.1
22.5°	1259.1	1265.1	1308.1	1337.1	1405.1	1455.1	1505.6	1579.1	1636.6	1679.1	1705.1
25°	964.1	983.1	1026.6	1064.6	1129.6	1222.6	1307.1	1405.1	1497.6	1570.6	1640.1
27.5°	750.0	752.5	792.0	830.5	870.5	951.1	1064.1	1181.6	1313.6	1408.6	1528.6
30°	620.0	617.0	631.5	653.0	686.0	745.0	825.0	940.1	1071.6	1235.6	1381.6
32.5°	528.0	529.0	539.0	553.5	579.5	614.5	663.0	751.0	873.5	1034.1	1211.6
35°	475.0	474.5	482.5	494.0	505.5	531.0	568.5	617.5	703.0	853.5	1028.6
37.5°	431.0	433.5	437.0	444.5	458.5	473.5	497.0	531.5	596.5	690.0	847.0
40°	395.0	396.0	401.5	407.5	415.0	426.0	444.5	471.0	515.5	586.5	694.0
42.5°	362.0	363.0	366.5	372.0	377.5	388.5	403.0	425.0	459.0	510.5	594.5
45°	330.0	330.0	333.5	336.0	342.5	352.5	365.0	384.0	409.0	450.0	509.0
47.5°	299.0	299.0	301.5	306.0	310.5	318.5	331.5	347.5	365.5	399.0	451.5
50°	273.0	273.5	275.0	278.5	281.0	288.0	297.5	311.0	330.0	354.5	396.5
52.5°	252.0	251.5	253.5	254.5	256.0	260.5	267.0	278.5	295.0	315.5	348.5
55°	229.0	227.0	230.0	232.5	234.0	236.0	240.0	247.5	262.0	280.0	306.0
57.5°	202.0	201.0	202.5	205.0	209.5	214.5	217.0	222.0	229.5	243.5	271.0
60°	167.0	167.0	171.5	173.0	178.5	185.5	192.5	196.5	204.0	212.5	231.5
62.5°	136.0	136.5	138.0	139.5	142.0	151.0	161.5	171.5	178.5	186.5	197.5
65°	119.0	120.0	120.0	121.0	123.0	125.0	129.0	136.0	148.5	160.0	169.5
67.5°	104.0	104.0	104.5	105.5	106.0	108.5	110.0	113.5	116.0	129.0	142.0
70°	89.0	90.5	90.0	91.0	91.5	92.5	94.5	96.0	100.5	103.0	110.0
72.5°	75.0	76.0	76.0	76.5	78.0	78.0	79.5	81.0	83.5	85.5	88.5
75°	63.0	62.5	63.0	64.0	64.5	65.0	65.0	67.0	68.5	70.5	73.0
77.5°	51.0	51.5	51.5	51.5	51.5	52.5	52.5	53.5	55.0	56.0	57.5
80°	39.0	39.5	39.0	39.5	40.0	40.5	40.0	40.5	42.0	43.0	43.0
82.5°	28.0	28.0	28.5	28.5	28.5	28.5	29.5	29.5	30.5	30.0	30.5
85°	18.0	17.5	17.5	17.5	18.0	18.5	18.0	18.0	18.5	18.5	18.5
87.5°	8.0	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.5	9.0	8.5
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°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1482.1	1478.1	1474.6	1465.6	1461.1	1451.1	1449.6	1449.1	1436.1	1423.6	1420.1
5°	1524.1	1516.1	1504.1	1490.1	1475.6	1460.6	1450.6	1442.6	1422.6	1403.6	1392.6
7.5°	1565.6	1551.1	1532.1	1508.1	1487.6	1463.6	1447.1	1432.1	1404.6	1379.6	1363.1
10°	1613.1	1585.1	1557.6	1521.1	1492.6	1464.6	1438.6	1416.1	1384.1	1348.1	1322.6
12.5°	1642.6	1611.1	1570.6	1535.1	1496.1	1458.6	1421.6	1391.1	1352.1	1314.6	1283.1
15°	1668.6	1635.6	1589.6	1538.6	1491.1	1444.6	1404.6	1368.6	1319.6	1275.1	1238.1
17.5°	1692.6	1647.1	1599.6	1540.6	1488.1	1431.6	1381.1	1336.1	1282.6	1230.1	1188.1
20°	1703.1	1658.1	1601.1	1542.1	1477.1	1407.6	1352.1	1302.1	1243.6	1185.1	1135.1
22.5°	1696.6	1664.1	1599.1	1525.6	1458.6	1385.1	1320.6	1260.6	1194.1	1134.1	1074.1
25°	1662.6	1650.6	1590.6	1513.6	1437.6	1353.1	1280.6	1217.1	1143.1	1079.1	1016.1
27.5°	1600.1	1617.6	1575.1	1491.6	1409.6	1318.6	1239.6	1168.1	1092.6	1021.1	958.1
30°	1501.1	1560.6	1544.6	1468.6	1374.1	1285.1	1193.6	1118.1	1036.1	962.1	900.0
32.5°	1365.6	1473.6	1497.1	1436.6	1338.1	1238.1	1141.1	1066.1	979.6	900.5	840.5
35°	1220.1	1367.1	1434.6	1394.1	1296.1	1190.6	1091.6	1004.1	918.0	841.0	781.0
37.5°	1047.6	1243.6	1347.6	1343.1	1249.6	1142.1	1034.6	948.1	859.5	783.5	721.0
40°	880.5	1097.6	1244.1	1276.6	1200.6	1082.1	973.1	884.5	798.5	724.5	650.0
42.5°	730.5	946.6	1135.1	1197.6	1141.1	1023.6	914.0	820.5	737.5	668.5	592.0
45°	615.0	804.0	1002.6	1103.6	1070.1	961.1	845.5	757.5	679.0	618.5	545.5
47.5°	532.5	670.0	869.5	1001.6	997.6	894.0	779.0	694.5	620.5	564.5	502.5
50°	464.0	580.0	742.5	897.5	910.5	827.0	719.0	635.5	567.5	508.0	460.5
52.5°	402.5	493.0	635.0	782.0	825.0	755.5	651.5	576.0	510.5	457.0	418.0
55°	350.5	424.5	535.5	674.5	730.5	679.5	586.5	514.5	461.0	415.0	380.0
57.5°	305.0	363.0	455.5	572.0	635.5	601.0	521.5	462.0	414.5	371.5	343.5
60°	262.5	308.0	383.5	477.0	549.0	526.5	461.0	406.5	367.5	331.5	305.5
62.5°	222.5	260.0	322.0	393.5	458.0	452.0	401.5	358.0	325.0	293.0	272.0
65°	185.5	214.0	264.5	324.0	377.0	381.5	343.0	312.0	281.5	255.5	236.0
67.5°	153.5	173.0	211.0	263.5	304.0	318.0	292.0	267.0	242.0	221.0	203.5
70°	124.5	139.5	165.5	206.0	242.5	257.5	244.0	225.5	204.5	188.0	173.5
72.5°	95.0	109.5	127.0	154.0	184.0	200.5	198.0	186.0	170.0	157.0	143.5
75°	76.0	80.5	93.5	113.5	138.0	152.0	155.5	148.5	135.0	124.5	116.5
77.5°	59.0	62.0	69.0	81.0	98.0	110.5	116.0	115.0	105.0	98.0	90.5
80°	45.0	46.5	49.5	54.0	66.0	78.5	82.0	82.0	75.5	73.0	65.5
82.5°	31.5	32.5	34.0	36.0	40.0	50.5	54.5	55.5	52.0	48.5	43.0
85°	19.5	19.0	20.0	21.5	22.5	25.5	31.5	32.5	31.5	27.5	26.0
87.5°	8.5	9.0	9.0	8.5	9.0	9.5	12.0	14.5	12.5	11.0	10.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1413.6	1410.1	1403.6	1393.6	1387.6	1377.1	1370.1	1374.1	1375.1	1374.1	1373.1
5°	1380.6	1370.1	1355.6	1341.6	1328.6	1314.6	1306.6	1303.1	1296.1	1292.1	1290.1
7.5°	1343.1	1327.6	1307.1	1284.6	1263.6	1243.6	1234.6	1227.6	1214.6	1207.6	1201.1
10°	1300.1	1271.6	1251.1	1219.1	1199.6	1171.1	1151.6	1152.1	1132.6	1121.6	1113.6
12.5°	1252.6	1220.6	1183.1	1155.1	1126.1	1104.6	1080.1	1068.1	1047.1	1036.6	1011.6
15°	1199.1	1162.6	1126.6	1087.6	1060.1	1024.6	990.6	949.1	915.5	886.5	878.5
17.5°	1142.1	1097.1	1061.6	1021.6	978.6	914.0	872.0	846.5	826.5	811.5	799.5
20°	1083.1	1037.1	998.6	929.6	866.0	825.5	796.5	778.0	757.0	740.5	731.5
22.5°	1021.1	972.6	916.5	837.5	791.5	761.0	736.0	714.0	701.5	689.5	681.5
25°	963.1	910.5	824.0	771.0	731.0	697.0	679.0	666.0	651.0	633.5	625.5
27.5°	902.5	819.0	753.5	715.0	674.0	652.5	637.0	615.5	602.0	595.5	586.5
30°	833.0	749.5	701.0	658.0	631.0	606.5	587.5	576.5	563.5	550.0	544.5
32.5°	755.5	693.0	647.0	613.0	585.5	565.5	551.5	532.0	523.5	516.5	503.5
35°	694.0	643.5	601.0	572.0	546.0	529.0	511.5	501.0	484.0	477.0	472.5
37.5°	638.0	594.0	562.0	530.0	510.0	490.0	480.0	462.5	456.0	445.0	436.0
40°	592.0	549.0	518.5	493.5	470.5	456.5	443.0	429.5	418.5	414.0	402.5
42.5°	545.0	512.0	481.5	453.5	440.0	425.0	407.0	398.0	386.5	378.5	372.5
45°	502.5	471.5	445.5	423.0	406.0	390.5	379.5	363.0	356.5	342.0	336.0
47.5°	465.0	435.0	410.0	388.0	371.0	362.0	346.0	331.5	322.5	312.5	304.0
50°	424.5	400.5	376.5	357.5	342.5	328.0	311.5	305.0	289.0	284.5	280.0
52.5°	387.5	365.0	343.5	325.0	310.0	296.0	282.0	273.0	263.5	259.0	256.0
55°	353.5	331.5	310.5	294.0	279.0	264.5	255.5	245.0	240.0	236.5	232.5
57.5°	318.5	298.5	282.0	265.0	250.0	238.0	227.0	221.0	216.0	212.0	206.5
60°	285.5	266.5	252.0	236.5	221.0	211.5	203.5	196.0	190.0	183.0	181.0
62.5°	250.5	234.5	221.5	206.5	193.5	185.0	177.5	170.5	163.0	152.0	149.0
65°	219.0	206.0	192.0	179.5	167.5	159.0	148.0	140.0	137.0	136.0	135.5
67.5°	190.0	177.5	165.5	152.5	141.5	132.0	125.5	124.5	122.5	122.0	120.5
70°	161.0	149.5	137.5	125.5	115.0	113.5	111.5	109.5	107.0	106.0	105.0
72.5°	135.0	123.0	111.0	102.0	99.0	97.0	95.0	93.0	91.5	90.5	90.0
75°	107.5	96.5	88.5	85.0	82.5	81.0	78.0	76.5	75.5	74.0	73.5
77.5°	82.0	75.0	71.0	69.0	66.0	64.5	62.5	61.0	59.5	59.5	58.5
80°	59.0	56.0	53.5	50.5	49.5	47.5	47.0	45.5	46.0	44.5	44.5
82.5°	42.5	38.5	36.5	35.5	34.5	33.0	32.5	32.0	32.0	31.0	31.0
85°	23.5	22.5	21.5	20.5	20.5	19.0	19.5	19.0	19.0	18.0	17.5
87.5°	9.5	9.0	8.0	8.0	8.0	7.5	7.5	7.0	7.0	7.0	6.5
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: P242399

CATALOG NUMBER: S122RDRP-S675D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1439.1	1439.1	1439.1	1439.1
2.5°	1367.6	1368.6	1367.1	1368.1
5°	1287.6	1281.6	1280.6	1279.1
7.5°	1193.1	1192.6	1189.6	1186.1
10°	1102.6	1100.1	1099.6	1096.1
12.5°	996.6	977.1	975.1	965.1
15°	866.5	863.5	853.5	847.0
17.5°	794.0	784.0	780.5	779.0
20°	724.5	715.5	714.0	713.0
22.5°	676.5	667.0	662.5	659.0
25°	620.5	617.0	615.0	614.0
27.5°	576.5	567.5	566.5	564.0
30°	540.0	537.5	534.0	531.0
32.5°	497.0	495.0	492.0	491.0
35°	467.5	460.5	457.5	453.0
37.5°	435.0	431.0	426.0	428.0
40°	396.0	393.5	392.5	392.0
42.5°	365.0	357.0	354.0	354.0
45°	333.5	327.0	322.5	323.0
47.5°	299.5	300.0	297.0	298.0
50°	276.5	273.5	271.5	272.0
52.5°	254.5	252.0	250.5	253.0
55°	230.0	227.0	226.5	226.0
57.5°	203.5	202.0	199.5	198.0
60°	174.5	170.5	165.5	165.0
62.5°	148.0	148.0	148.0	148.0
65°	134.5	134.0	134.5	135.0
67.5°	120.5	119.5	118.5	119.0
70°	104.0	103.5	103.0	103.0
72.5°	88.0	88.0	87.5	87.0
75°	73.0	72.0	72.0	72.0
77.5°	58.5	58.0	57.5	57.0
80°	44.0	43.5	43.0	43.0
82.5°	31.0	30.5	30.5	30.0
85°	18.0	18.5	18.0	19.0
87.5°	6.5	6.0	6.5	6.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242399
 CATALOG NUMBER: S122RDRP-S675D835-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	17.04	18.49	17.40	18.80	19.12	22.94	24.39	23.30	24.70	25.02
	3H	18.15	19.45	18.53	19.78	20.14	24.09	25.39	24.47	25.72	26.08
	4H	18.60	19.82	19.01	20.17	20.55	24.49	25.71	24.89	26.06	26.44
	6H	18.97	20.09	19.39	20.46	20.85	24.76	25.88	25.17	26.24	26.64
	8H	19.09	20.16	19.52	20.55	20.95	24.83	25.89	25.25	26.28	26.69
	12H	19.18	20.20	19.61	20.58	21.01	24.86	25.88	25.29	26.27	26.70
4H	2H	17.75	18.96	18.15	19.31	19.69	22.90	24.12	23.30	24.47	24.85
	3H	19.02	20.02	19.43	20.42	20.83	24.20	25.20	24.61	25.60	26.01
	4H	19.57	20.47	20.00	20.89	21.33	24.69	25.59	25.12	26.01	26.45
	6H	20.04	20.82	20.50	21.27	21.73	25.08	25.86	25.54	26.30	26.77
	8H	20.20	20.93	20.67	21.38	21.85	25.19	25.92	25.66	26.37	26.84
	12H	20.32	20.97	20.80	21.45	21.92	25.27	25.92	25.75	26.40	26.87
8H	4H	19.91	20.64	20.38	21.09	21.56	24.68	25.41	25.14	25.85	26.32
	6H	20.48	21.08	20.98	21.58	22.06	25.10	25.71	25.60	26.20	26.68
	8H	20.71	21.25	21.22	21.76	22.25	25.25	25.79	25.77	26.31	26.79
	12H	20.89	21.37	21.40	21.86	22.43	25.37	25.85	25.89	26.35	26.91
12H	4H	19.95	20.60	20.44	21.08	21.56	24.65	25.30	25.14	25.78	26.26
	6H	20.54	21.09	21.06	21.60	22.09	25.08	25.62	25.59	26.13	26.62
	8H	20.82	21.30	21.33	21.79	22.36	25.26	25.74	25.77	26.23	26.80