

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: P243259

Luminaire Tested: S122RDRP-H675D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243259
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-H675D835-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

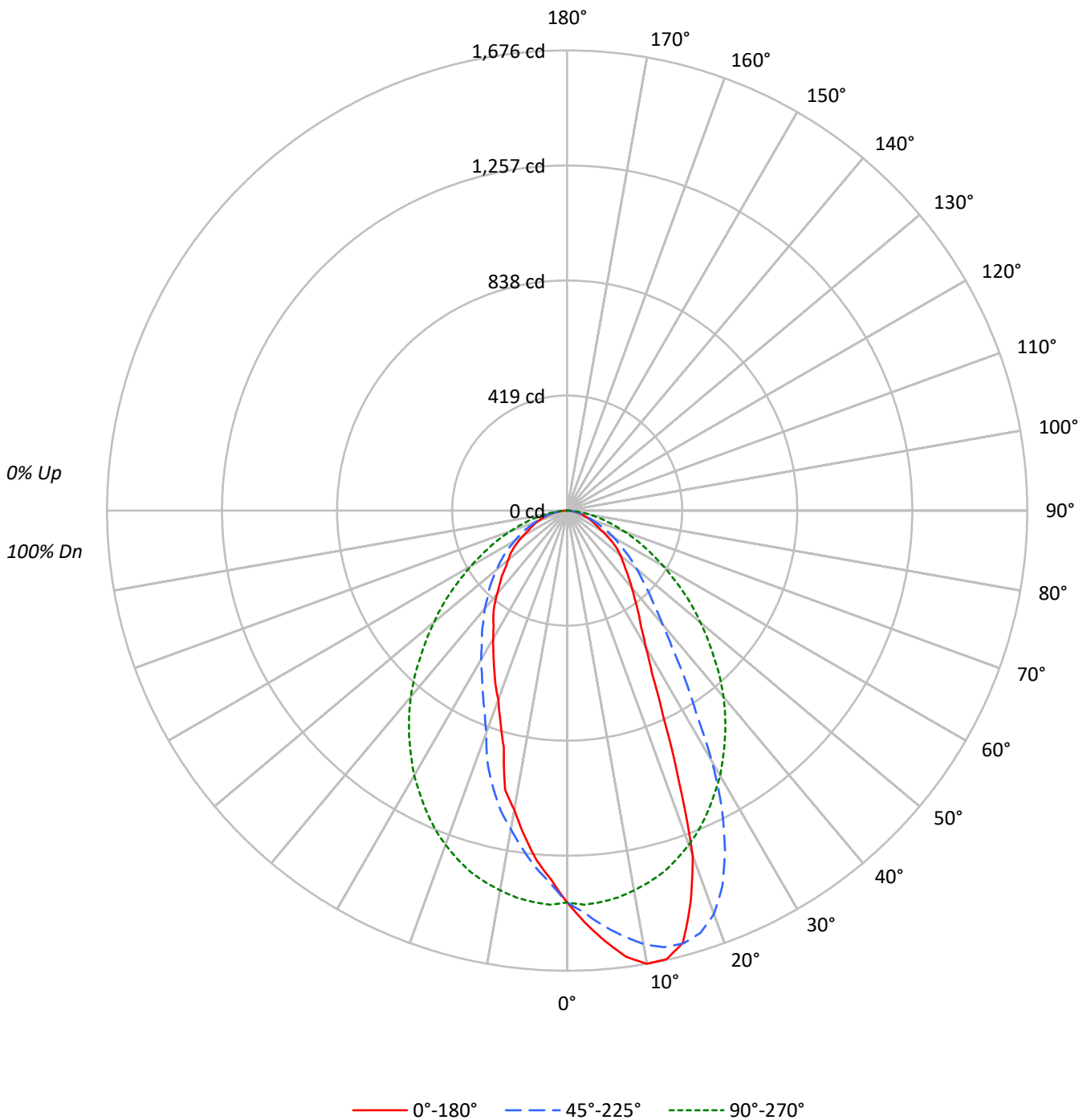
Lumens per Lamp: N/A
Luminaire Lumens: 2404.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	27175	27175	27175	27175	27175
5°	30082	29029	27359	24968	24423
10°	32416	31008	27171	22800	21419
15°	32129	32194	26854	20568	17602
20°	27103	31682	26260	17469	14858
25°	17425	28591	25451	15288	13226
30°	12590	23186	24511	13771	11851
35°	10487	17358	23330	12571	10899
40°	9101	13454	22033	11597	9866
45°	8124	11268	20386	10791	9029
50°	7497	9809	18772	9906	8300
55°	6728	8465	17146	9239	7907
60°	5371	7451	15436	8396	7112
65°	4922	6332	13868	7703	6567
70°	4522	5224	12247	6839	6237
75°	4121	4673	10723	6491	5910
80°	3587	4091	8907	5945	5528
85°	2863	3366	7147	5398	5092

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 45°
 Luminance: 26989 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	5.6
10°-20°	369.5	15.4
20°-30°	465.8	19.4
30°-40°	447.2	18.6
40°-50°	385.1	16.0
50°-60°	294.4	12.2
60°-70°	187.4	7.8
70°-80°	95.0	3.9
80°-90°	25.1	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°	970.4	40.4
0°-40°	1417.5	59.0
0°-60°	2097.1	87.2
0°-90°	2404.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1427	1427	1427	1427	1427	
5°	1573	1518	1431	1306	1277	153
15°	1629	1633	1362	1043	893	442
25°	829	1360	1211	727	629	396
35°	451	746	1003	541	469	284
45°	302	418	757	401	335	235
55°	203	255	516	278	238	179
65°	109	140	308	171	146	109
75°	56	64	146	88	80	59
85°	13	15	33	25	23	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°	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7
2.5°	1502.3	1504.2	1505.1	1502.8	1497.7	1498.1	1493.5	1485.5	1475.7	1466.9	1472.0
5°	1573.3	1575.6	1575.2	1571.0	1565.8	1561.2	1553.2	1542.0	1530.4	1518.2	1515.9
7.5°	1638.7	1643.8	1642.4	1634.5	1630.7	1624.2	1610.7	1598.1	1580.3	1563.0	1556.0
10°	1676.0	1680.2	1677.9	1676.0	1671.8	1665.3	1653.1	1641.0	1621.4	1603.2	1592.9
12.5°	1673.2	1677.0	1678.8	1680.7	1679.3	1677.0	1671.8	1661.5	1645.7	1628.9	1615.8
15°	1629.3	1623.3	1619.1	1630.7	1634.9	1650.8	1654.5	1655.9	1645.2	1632.6	1629.3
17.5°	1495.8	1497.7	1529.9	1524.8	1531.8	1570.5	1585.9	1606.9	1615.8	1613.0	1618.6
20°	1337.1	1315.1	1331.0	1354.4	1376.3	1432.8	1470.1	1503.3	1541.6	1563.0	1583.6
22.5°	1060.7	1061.2	1099.4	1137.7	1187.2	1248.4	1305.3	1368.8	1437.0	1478.5	1526.6
25°	829.1	851.5	868.4	885.2	957.1	1015.9	1110.7	1187.7	1281.5	1360.4	1441.2
27.5°	670.4	693.7	696.6	734.4	776.8	824.5	886.6	1007.9	1104.1	1219.9	1319.8
30°	572.4	577.0	586.8	596.6	627.9	672.3	739.0	815.1	922.0	1054.2	1188.2
32.5°	501.4	500.5	510.3	525.7	543.0	572.8	610.6	673.7	770.3	875.4	1031.8
35°	451.0	449.6	456.6	462.2	472.5	496.7	530.8	572.4	641.9	746.5	867.9
37.5°	403.4	406.2	410.4	416.4	430.0	445.4	468.3	502.8	557.9	627.0	743.2
40°	366.0	369.3	374.0	378.2	388.4	401.0	416.4	444.0	480.9	541.1	630.3
42.5°	332.4	333.8	337.5	343.6	351.1	362.3	377.2	398.2	429.0	471.1	549.0
45°	301.6	301.6	305.8	311.4	316.1	326.8	338.5	358.5	382.4	418.3	473.9
47.5°	275.4	275.9	278.2	279.2	284.3	294.1	306.7	322.6	342.2	369.8	421.6
50°	253.0	254.9	255.8	257.2	259.1	264.2	273.1	285.2	306.7	331.0	365.5
52.5°	229.7	232.0	233.9	236.7	239.5	240.0	246.5	254.4	269.4	294.6	322.6
55°	202.6	204.5	208.2	210.6	214.3	217.6	222.7	228.3	238.1	254.9	283.8
57.5°	171.8	172.3	176.0	178.3	185.8	193.3	197.9	204.0	211.0	222.7	244.6
60°	141.0	142.4	142.9	144.7	151.3	159.2	168.5	177.9	185.3	195.6	211.0
62.5°	124.2	124.7	126.1	127.9	128.4	132.1	134.9	146.1	159.2	169.5	179.7
65°	109.2	109.7	109.7	111.1	113.0	114.8	116.2	120.4	126.1	140.5	153.1
67.5°	95.2	94.8	95.7	97.1	97.6	99.0	101.3	103.6	107.4	111.6	124.7
70°	81.2	81.2	80.8	82.2	83.6	84.0	85.4	87.8	90.1	93.8	98.0
72.5°	67.2	68.2	68.2	69.1	69.6	71.4	72.4	73.3	76.6	78.4	81.7
75°	56.0	55.6	57.0	56.5	57.4	57.9	59.3	60.7	61.6	63.5	66.3
77.5°	44.8	43.9	44.8	44.4	45.3	46.2	46.2	47.6	48.6	50.4	51.8
80°	32.7	32.7	33.1	34.1	34.1	34.5	35.5	35.0	36.9	37.3	38.7
82.5°	22.4	22.9	22.9	23.3	23.3	23.3	24.3	24.3	24.7	25.7	26.1
85°	13.1	12.6	13.1	13.1	13.1	13.5	14.0	13.5	14.5	15.4	15.4
87.5°	3.7	3.7	4.2	4.7	4.7	5.1	5.1	5.1	5.6	5.6	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7
2.5°	1472.0	1469.7	1463.6	1458.0	1447.7	1439.3	1436.5	1437.0	1424.4	1411.3	1407.6
5°	1512.6	1504.2	1492.1	1479.5	1464.1	1448.7	1438.9	1430.9	1411.3	1391.7	1380.5
7.5°	1546.2	1532.7	1515.0	1494.9	1474.8	1451.9	1436.1	1421.1	1394.0	1367.4	1353.0
10°	1577.0	1557.9	1533.6	1507.5	1480.9	1451.0	1428.1	1404.8	1370.7	1340.8	1316.1
12.5°	1606.5	1576.1	1551.4	1513.6	1484.1	1443.5	1412.2	1385.2	1345.0	1307.7	1280.1
15°	1609.3	1587.8	1554.6	1515.4	1470.6	1432.8	1393.6	1361.8	1316.1	1274.5	1227.4
17.5°	1608.8	1592.0	1557.4	1517.3	1463.6	1414.1	1371.6	1330.1	1277.8	1229.2	1188.6
20°	1592.0	1580.3	1550.4	1502.8	1448.7	1391.7	1344.5	1295.5	1234.4	1184.4	1140.1
22.5°	1552.3	1555.1	1531.8	1489.3	1430.9	1367.4	1312.8	1256.3	1193.8	1136.3	1080.3
25°	1485.1	1515.0	1507.9	1468.3	1406.2	1336.6	1274.5	1211.0	1143.8	1082.6	1030.8
27.5°	1401.5	1457.5	1469.7	1438.9	1379.6	1301.6	1231.1	1162.0	1093.4	1027.6	974.3
30°	1302.5	1386.1	1416.9	1400.1	1345.5	1263.8	1182.1	1114.4	1039.2	969.2	913.2
32.5°	1177.9	1295.1	1349.2	1354.4	1309.5	1221.8	1131.2	1058.4	981.3	915.0	854.8
35°	1038.8	1182.5	1270.8	1294.6	1262.4	1175.5	1080.3	1003.3	921.1	854.3	793.7
37.5°	898.7	1067.7	1183.5	1229.7	1208.2	1124.2	1023.4	945.4	864.2	796.0	739.0
40°	769.8	930.4	1080.8	1153.1	1146.6	1068.6	966.9	886.1	803.5	740.4	677.9
42.5°	654.5	809.5	974.8	1071.9	1077.0	1008.9	904.8	823.5	744.2	681.6	616.3
45°	563.5	699.8	863.7	979.5	1001.9	945.9	840.3	756.8	684.4	625.6	560.2
47.5°	490.7	596.6	748.8	884.7	924.4	875.4	774.5	695.1	627.0	576.6	514.9
50°	427.6	527.1	656.4	782.0	840.3	803.5	709.2	633.5	571.9	523.3	469.2
52.5°	371.6	448.6	560.7	681.1	759.6	726.0	645.7	576.1	518.2	472.9	427.6
55°	325.4	389.8	488.8	596.2	668.5	649.9	578.4	516.3	465.5	422.5	385.6
57.5°	277.8	331.9	411.8	507.5	578.4	575.6	516.8	457.1	416.9	376.3	349.7
60°	236.2	280.1	345.0	426.2	497.7	498.1	452.4	405.2	370.7	335.7	310.5
62.5°	199.3	234.4	290.9	356.2	413.2	427.6	393.6	352.5	324.5	297.4	275.9
65°	167.6	193.7	236.2	295.5	340.3	359.9	337.5	307.7	284.3	260.0	240.9
67.5°	138.2	157.3	188.6	235.3	280.1	294.6	285.2	262.4	245.6	225.5	211.0
70°	108.8	125.1	147.1	182.1	219.0	239.0	236.2	219.9	205.9	191.4	177.9
72.5°	86.4	95.7	112.5	137.7	167.1	189.5	190.5	182.1	170.4	158.3	149.4
75°	69.6	73.8	81.7	101.3	124.7	143.3	149.9	145.7	136.3	128.9	122.8
77.5°	53.7	57.4	62.6	71.9	90.1	104.6	112.5	113.0	107.4	100.8	96.2
80°	40.1	41.6	45.3	50.0	59.3	71.9	81.2	81.2	78.0	74.7	71.9
82.5°	27.5	28.9	30.8	33.1	37.8	45.3	53.7	55.1	53.2	52.3	48.6
85°	15.4	16.8	17.7	19.1	21.0	24.7	30.8	32.7	33.1	30.3	28.5
87.5°	6.1	6.1	6.5	7.0	7.5	8.9	11.2	14.0	14.0	12.6	12.1
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°	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7
2.5°	1402.9	1396.4	1388.0	1380.5	1370.2	1360.0	1358.1	1361.8	1362.8	1358.1	1359.5
5°	1369.8	1357.6	1347.3	1330.5	1319.8	1305.8	1296.5	1296.5	1296.5	1289.5	1282.9
7.5°	1335.2	1318.9	1299.3	1283.4	1261.4	1243.2	1234.4	1230.2	1221.8	1214.8	1206.8
10°	1295.1	1272.2	1247.9	1223.2	1204.0	1178.8	1163.9	1154.5	1140.1	1134.0	1122.3
12.5°	1247.9	1225.0	1195.6	1155.5	1149.9	1119.1	1098.0	1080.8	1063.0	1048.6	1043.4
15°	1210.1	1170.4	1131.2	1102.7	1061.2	1043.0	1012.1	1009.3	994.9	952.4	919.2
17.5°	1148.9	1113.5	1070.0	1038.3	1005.1	964.5	931.8	899.6	868.8	838.9	838.0
20°	1094.8	1053.2	1012.1	977.6	919.7	861.8	841.7	812.3	794.1	770.3	763.3
22.5°	1035.5	992.1	940.7	890.3	822.6	786.2	764.2	740.9	722.7	712.0	701.2
25°	975.7	932.3	864.2	802.1	755.8	727.4	708.7	683.5	670.4	661.1	647.1
27.5°	917.4	862.3	790.4	740.9	703.6	671.3	654.5	634.0	619.5	607.4	598.5
30°	859.5	783.9	722.7	684.4	646.1	626.1	604.1	588.7	578.0	566.8	552.3
32.5°	796.0	716.6	676.9	629.8	607.4	578.4	562.6	546.7	532.7	524.7	519.6
35°	722.2	658.3	622.8	588.2	559.8	540.6	518.2	508.4	500.9	485.5	479.0
37.5°	659.7	613.4	576.1	545.3	519.1	498.6	488.3	471.5	460.8	455.7	448.6
40°	607.8	566.8	534.6	503.3	481.3	466.4	448.2	439.3	425.3	420.2	414.6
42.5°	563.0	525.2	491.6	467.8	448.6	428.1	418.8	403.8	397.8	385.2	380.5
45°	517.7	484.1	454.7	431.4	413.2	400.6	383.8	374.4	363.7	357.1	344.5
47.5°	472.5	442.6	418.3	398.7	382.8	367.4	353.4	345.5	331.9	324.9	318.4
50°	437.4	408.5	385.6	366.0	349.7	334.3	325.4	312.3	300.2	292.3	289.9
52.5°	395.9	370.7	349.7	334.7	318.4	307.2	295.1	280.6	274.5	266.6	264.7
55°	359.0	338.5	320.7	304.9	290.9	278.2	264.2	254.0	249.3	245.6	242.8
57.5°	324.5	304.9	288.5	274.0	261.9	248.8	237.2	231.1	226.9	222.7	219.9
60°	290.4	272.6	257.7	245.6	233.0	220.4	212.0	206.8	203.5	197.5	195.6
62.5°	260.0	243.7	228.3	217.1	205.4	195.6	188.6	181.6	176.5	171.8	162.0
65°	226.9	212.4	200.7	189.5	178.3	170.9	162.9	155.0	148.5	148.5	148.5
67.5°	197.5	184.9	172.7	162.9	153.1	144.3	136.3	135.9	133.5	132.6	131.2
70°	167.6	158.7	147.5	136.8	127.0	122.8	121.4	119.0	116.2	115.8	113.9
72.5°	140.5	130.3	120.0	110.6	108.8	106.9	104.1	101.8	99.9	98.5	97.6
75°	114.8	104.6	96.2	93.8	91.5	88.2	85.9	84.0	83.1	83.1	82.6
77.5°	87.8	81.7	78.0	74.2	72.4	70.5	69.1	68.2	66.8	67.2	66.3
80°	64.4	62.6	59.3	57.0	56.0	54.2	53.2	52.8	51.8	51.8	51.4
82.5°	46.2	43.0	41.6	40.1	39.2	38.3	38.7	38.3	37.8	37.3	37.8
85°	26.6	26.1	25.2	25.2	25.2	24.7	24.7	24.7	24.3	23.8	23.8
87.5°	11.7	12.1	12.1	11.2	12.6	12.6	12.1	12.1	11.7	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

TEST NUMBER: P243259

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1426.7	1426.7	1426.7	1426.7
2.5°	1353.4	1353.0	1350.2	1345.5
5°	1280.1	1278.3	1273.6	1277.3
7.5°	1201.7	1196.6	1191.9	1194.2
10°	1117.7	1115.8	1113.0	1107.4
12.5°	1024.8	1032.2	1024.3	1042.0
15°	887.0	920.2	878.6	892.6
17.5°	818.4	818.9	813.3	806.7
20°	754.0	737.6	743.7	733.0
22.5°	691.9	688.1	686.3	682.5
25°	636.3	629.3	627.0	629.3
27.5°	595.2	592.0	583.1	581.7
30°	543.9	542.5	539.7	538.8
32.5°	511.7	505.6	504.2	498.6
35°	475.7	472.5	470.1	468.7
37.5°	439.8	437.9	433.7	436.0
40°	410.4	401.0	397.3	396.8
42.5°	378.2	373.0	365.5	363.2
45°	340.8	338.5	336.1	335.2
47.5°	308.1	306.7	303.9	302.5
50°	284.8	281.0	280.6	280.1
52.5°	262.4	261.0	259.6	261.4
55°	241.4	239.5	238.1	238.1
57.5°	218.5	215.2	212.4	212.9
60°	191.9	190.0	187.7	186.7
62.5°	161.1	161.1	160.6	160.6
65°	146.6	145.7	145.2	145.7
67.5°	130.7	129.8	128.4	128.9
70°	112.5	112.0	112.5	112.0
72.5°	96.2	95.7	96.2	97.1
75°	81.2	80.8	80.3	80.3
77.5°	65.8	65.4	64.4	65.4
80°	51.4	50.9	50.4	50.4
82.5°	36.4	36.9	36.4	36.4
85°	23.8	24.3	23.8	23.3
87.5°	12.1	12.6	11.7	11.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243259
 CATALOG NUMBER: S122RDRP-H675D835-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	16.31	17.77	16.68	18.08	18.40	22.65	24.10	23.01	24.41	24.73
	3H	17.49	18.79	17.87	19.12	19.48	23.90	25.20	24.27	25.53	25.89
	4H	17.94	19.16	18.35	19.51	19.89	24.33	25.55	24.73	25.90	26.28
	6H	18.28	19.40	18.69	19.77	20.16	24.62	25.75	25.04	26.12	26.51
	8H	18.37	19.44	18.80	19.83	20.24	24.71	25.78	25.14	26.17	26.57
	12H	18.43	19.45	18.86	19.83	20.26	24.76	25.78	25.19	26.16	26.59
4H	2H	17.04	18.26	17.44	18.61	18.99	22.63	23.85	23.03	24.20	24.58
	3H	18.37	19.38	18.78	19.78	20.18	24.01	25.02	24.42	25.42	25.83
	4H	18.92	19.83	19.35	20.24	20.68	24.54	25.45	24.98	25.87	26.31
	6H	19.35	20.14	19.81	20.58	21.04	24.96	25.75	25.42	26.19	26.65
	8H	19.48	20.22	19.94	20.66	21.13	25.09	25.83	25.56	26.27	26.74
	12H	19.56	20.22	20.04	20.70	21.17	25.18	25.84	25.67	26.32	26.79
8H	4H	19.26	20.00	19.73	20.44	20.91	24.54	25.28	25.00	25.72	26.19
	6H	19.79	20.39	20.29	20.89	21.36	25.00	25.61	25.50	26.10	26.58
	8H	19.97	20.52	20.49	21.03	21.52	25.17	25.72	25.69	26.23	26.72
	12H	20.11	20.59	20.62	21.08	21.65	25.32	25.80	25.83	26.29	26.86
12H	4H	19.31	19.96	19.79	20.44	20.91	24.52	25.17	25.00	25.65	26.13
	6H	19.85	20.39	20.37	20.91	21.39	24.98	25.53	25.50	26.04	26.53
	8H	20.08	20.56	20.59	21.06	21.62	25.19	25.67	25.70	26.16	26.73