

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: P242419

Luminaire Tested: S122RDRP-S675D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242419
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-S675D940-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

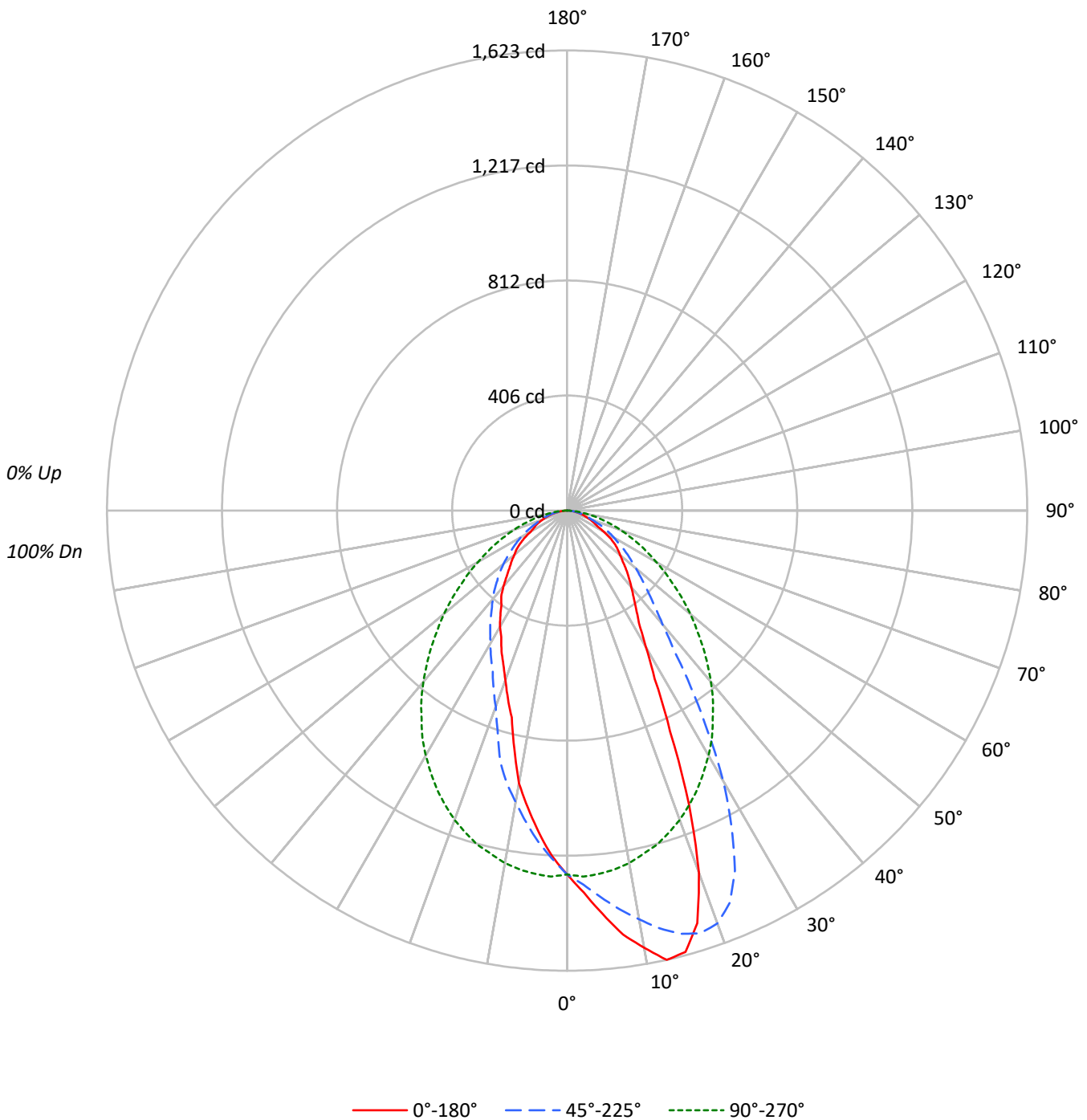
Lumens per Lamp: N/A
Luminaire Lumens: 2217.5 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P242419

CATALOG NUMBER: S122RDRP-S675D940-X4F0-XX-UDD-A-W

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°	24442	24442	24442	24442	24442
5°	27298	26172	24597	22413	21809
10°	30287	28312	24423	20196	18904
15°	31776	30475	24066	18016	14894
20°	27547	31417	23536	14921	12888
25°	18068	29434	22810	13064	11507
30°	12161	24233	21928	11897	10414
35°	9850	17698	20818	10968	9394
40°	8757	13004	19614	10123	8693
45°	7928	10810	18196	9380	7758
50°	7216	9367	16793	8668	7189
55°	6781	8292	15236	7834	6692
60°	5672	7219	13810	7185	5604
65°	4782	6432	12539	6391	5427
70°	4422	5118	11200	5636	5118
75°	4136	4629	9744	5314	4725
80°	3817	4201	8018	4651	4201
85°	3519	3606	6338	3693	3693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 26509 cd/sqm



TEST NUMBER: P242419

CATALOG NUMBER: S122RDRP-S675D940-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	5.5
10°-20°	339.7	15.3
20°-30°	437.2	19.7
30°-40°	414.8	18.7
40°-50°	355.4	16.0
50°-60°	270.7	12.2
60°-70°	170.8	7.7
70°-80°	85.2	3.8
80°-90°	21.9	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°	898.7	40.5
0°-40°	1313.5	59.2
0°-60°	1939.6	87.5
0°-90°	2217.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1283	1283	1283	1283	1283	
5°	1428	1369	1286	1172	1141	141
15°	1611	1545	1220	914	755	438
25°	860	1400	1085	622	548	406
35°	424	761	895	472	404	270
45°	294	401	676	348	288	228
55°	204	250	459	236	202	180
65°	106	143	278	142	120	107
75°	56	63	132	72	64	60
85°	16	16	29	17	17	18
90°	0	0	0	0	0	



TEST NUMBER: P242419

CATALOG NUMBER: S122RDRP-S675D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2
2.5°	1348.3	1349.7	1351.0	1347.9	1347.9	1345.2	1339.4	1335.0	1322.5	1320.7	1320.7
5°	1427.7	1426.8	1428.6	1422.8	1414.8	1413.0	1404.5	1393.4	1381.8	1368.8	1366.2
7.5°	1508.0	1502.6	1500.4	1503.1	1494.6	1483.0	1468.7	1455.4	1435.3	1418.8	1408.5
10°	1565.9	1580.6	1571.7	1556.1	1559.2	1538.3	1527.1	1508.0	1491.9	1463.8	1457.6
12.5°	1623.0	1626.6	1625.2	1618.1	1612.3	1599.4	1583.3	1567.3	1534.3	1509.7	1483.9
15°	1611.4	1619.9	1622.1	1619.4	1621.7	1620.8	1612.7	1598.9	1573.1	1545.4	1521.3
17.5°	1525.8	1535.6	1543.6	1550.8	1561.9	1583.8	1590.5	1593.1	1582.4	1562.8	1542.7
20°	1359.0	1349.2	1390.3	1411.2	1429.0	1473.6	1512.0	1526.7	1550.3	1549.9	1545.4
22.5°	1122.7	1128.1	1166.4	1192.3	1252.9	1297.5	1342.5	1408.1	1459.4	1497.3	1520.4
25°	859.7	876.6	915.4	949.3	1007.2	1090.2	1165.5	1252.9	1335.4	1400.5	1462.5
27.5°	668.8	671.0	706.3	740.6	776.3	848.1	948.8	1053.6	1171.3	1256.0	1363.1
30°	552.9	550.2	563.1	582.3	611.7	664.4	735.7	838.3	955.5	1101.8	1232.0
32.5°	470.8	471.7	480.7	493.6	516.8	548.0	591.2	669.7	779.0	922.1	1080.4
35°	423.6	423.1	430.3	440.5	450.8	473.5	507.0	550.7	626.9	761.1	917.2
37.5°	384.3	386.6	389.7	396.4	408.9	422.2	443.2	474.0	531.9	615.3	755.3
40°	352.2	353.1	358.0	363.4	370.1	379.9	396.4	420.0	459.7	523.0	618.9
42.5°	322.8	323.7	326.8	331.7	336.6	346.4	359.4	379.0	409.3	455.2	530.2
45°	294.3	294.3	297.4	299.6	305.4	314.3	325.5	342.4	364.7	401.3	453.9
47.5°	266.6	266.6	268.9	272.9	276.9	284.0	295.6	309.9	325.9	355.8	402.6
50°	243.5	243.9	245.2	248.4	250.6	256.8	265.3	277.3	294.3	316.1	353.6
52.5°	224.7	224.3	226.1	227.0	228.3	232.3	238.1	248.4	263.1	281.3	310.8
55°	204.2	202.4	205.1	207.3	208.7	210.5	214.0	220.7	233.6	249.7	272.9
57.5°	180.1	179.2	180.6	182.8	186.8	191.3	193.5	198.0	204.7	217.1	241.7
60°	148.9	148.9	152.9	154.3	159.2	165.4	171.7	175.2	181.9	189.5	206.4
62.5°	121.3	121.7	123.1	124.4	126.6	134.7	144.0	152.9	159.2	166.3	176.1
65°	106.1	107.0	107.0	107.9	109.7	111.5	115.0	121.3	132.4	142.7	151.2
67.5°	92.7	92.7	93.2	94.1	94.5	96.8	98.1	101.2	103.4	115.0	126.6
70°	79.4	80.7	80.3	81.2	81.6	82.5	84.3	85.6	89.6	91.9	98.1
72.5°	66.9	67.8	67.8	68.2	69.6	69.6	70.9	72.2	74.5	76.2	78.9
75°	56.2	55.7	56.2	57.1	57.5	58.0	58.0	59.7	61.1	62.9	65.1
77.5°	45.5	45.9	45.9	45.9	45.9	46.8	46.8	47.7	49.0	49.9	51.3
80°	34.8	35.2	34.8	35.2	35.7	36.1	35.7	36.1	37.5	38.3	38.3
82.5°	25.0	25.0	25.4	25.4	25.4	25.4	26.3	26.3	27.2	26.8	27.2
85°	16.1	15.6	15.6	15.6	16.1	16.5	16.1	16.1	16.5	16.5	16.5
87.5°	7.1	7.6	7.6	7.6	7.6	7.6	7.6	8.0	7.6	8.0	7.6
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: P242419

CATALOG NUMBER: S122RDRP-S675D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2
2.5°	1321.6	1318.0	1314.9	1306.9	1302.9	1293.9	1292.6	1292.2	1280.6	1269.4	1266.3
5°	1359.0	1351.9	1341.2	1328.7	1315.8	1302.4	1293.5	1286.4	1268.5	1251.6	1241.8
7.5°	1396.0	1383.1	1366.2	1344.8	1326.5	1305.1	1290.4	1277.0	1252.5	1230.2	1215.5
10°	1438.4	1413.4	1388.9	1356.4	1331.0	1306.0	1282.8	1262.7	1234.2	1202.1	1179.4
12.5°	1464.7	1436.6	1400.5	1368.8	1334.1	1300.6	1267.6	1240.4	1205.7	1172.2	1144.1
15°	1487.9	1458.5	1417.5	1372.0	1329.6	1288.1	1252.5	1220.4	1176.7	1137.0	1104.0
17.5°	1509.3	1468.7	1426.4	1373.8	1326.9	1276.6	1231.5	1191.4	1143.7	1096.9	1059.4
20°	1518.7	1478.5	1427.7	1375.1	1317.1	1255.2	1205.7	1161.1	1108.9	1056.7	1012.1
22.5°	1512.9	1483.9	1425.9	1360.4	1300.6	1235.1	1177.6	1124.1	1064.8	1011.3	957.7
25°	1482.5	1471.8	1418.3	1349.7	1281.9	1206.5	1141.9	1085.3	1019.3	962.2	906.0
27.5°	1426.8	1442.4	1404.5	1330.1	1256.9	1175.8	1105.3	1041.6	974.2	910.5	854.3
30°	1338.5	1391.6	1377.3	1309.5	1225.3	1145.9	1064.3	997.0	923.9	857.9	802.6
32.5°	1217.7	1314.0	1335.0	1281.0	1193.2	1104.0	1017.5	950.6	873.5	803.0	749.5
35°	1087.9	1219.0	1279.2	1243.1	1155.7	1061.6	973.4	895.3	818.6	750.0	696.5
37.5°	934.1	1108.9	1201.6	1197.6	1114.3	1018.4	922.5	845.4	766.5	698.7	643.0
40°	785.2	978.7	1109.3	1138.3	1070.6	964.9	867.7	788.8	712.1	646.1	579.6
42.5°	651.4	844.0	1012.1	1067.9	1017.5	912.7	815.1	731.7	657.7	596.1	527.9
45°	548.4	717.0	894.0	984.1	954.2	857.0	754.0	675.5	605.5	551.6	486.5
47.5°	474.9	597.5	775.4	893.1	889.5	797.2	694.7	619.3	553.3	503.4	448.1
50°	413.8	517.2	662.1	800.4	811.9	737.5	641.2	566.7	506.1	453.0	410.7
52.5°	358.9	439.6	566.3	697.4	735.7	673.7	581.0	513.7	455.2	407.5	372.8
55°	312.6	378.6	477.5	601.5	651.4	606.0	523.0	458.8	411.1	370.1	338.9
57.5°	272.0	323.7	406.2	510.1	566.7	535.9	465.1	412.0	369.6	331.3	306.3
60°	234.1	274.7	342.0	425.4	489.6	469.5	411.1	362.5	327.7	295.6	272.4
62.5°	198.4	231.9	287.1	350.9	408.4	403.1	358.0	319.2	289.8	261.3	242.6
65°	165.4	190.8	235.9	288.9	336.2	340.2	305.9	278.2	251.0	227.8	210.5
67.5°	136.9	154.3	188.2	235.0	271.1	283.6	260.4	238.1	215.8	197.1	181.5
70°	111.0	124.4	147.6	183.7	216.3	229.6	217.6	201.1	182.4	167.7	154.7
72.5°	84.7	97.6	113.3	137.3	164.1	178.8	176.6	165.9	151.6	140.0	128.0
75°	67.8	71.8	83.4	101.2	123.1	135.5	138.7	132.4	120.4	111.0	103.9
77.5°	52.6	55.3	61.5	72.2	87.4	98.5	103.4	102.6	93.6	87.4	80.7
80°	40.1	41.5	44.1	48.2	58.9	70.0	73.1	73.1	67.3	65.1	58.4
82.5°	28.1	29.0	30.3	32.1	35.7	45.0	48.6	49.5	46.4	43.3	38.3
85°	17.4	16.9	17.8	19.2	20.1	22.7	28.1	29.0	28.1	24.5	23.2
87.5°	7.6	8.0	8.0	7.6	8.0	8.5	10.7	12.9	11.1	9.8	8.9
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°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2
2.5°	1260.5	1257.4	1251.6	1242.7	1237.3	1228.0	1221.7	1225.3	1226.2	1225.3	1224.4
5°	1231.1	1221.7	1208.8	1196.3	1184.7	1172.2	1165.1	1162.0	1155.7	1152.2	1150.4
7.5°	1197.6	1183.8	1165.5	1145.5	1126.7	1108.9	1100.9	1094.6	1083.0	1076.8	1071.0
10°	1159.3	1133.9	1115.6	1087.1	1069.7	1044.2	1026.9	1027.3	1009.9	1000.1	993.0
12.5°	1116.9	1088.4	1055.0	1030.0	1004.1	984.9	963.1	952.4	933.7	924.3	902.0
15°	1069.2	1036.7	1004.6	969.8	945.3	913.6	883.3	846.3	816.4	790.5	783.4
17.5°	1018.4	978.3	946.6	910.9	872.6	815.1	777.6	754.9	737.0	723.7	713.0
20°	965.8	924.8	890.4	828.9	772.3	736.1	710.3	693.8	675.1	660.3	652.3
22.5°	910.5	867.2	817.3	746.8	705.8	678.6	656.3	636.7	625.6	614.9	607.7
25°	858.8	811.9	734.8	687.5	651.9	621.6	605.5	593.9	580.5	564.9	557.8
27.5°	804.8	730.4	671.9	637.6	601.0	581.9	568.1	548.9	536.8	531.0	523.0
30°	742.8	668.4	625.1	586.8	562.7	540.9	523.9	514.1	502.5	490.5	485.6
32.5°	673.7	618.0	577.0	546.6	522.1	504.3	491.8	474.4	466.8	460.6	449.0
35°	618.9	573.8	535.9	510.1	486.9	471.7	456.1	446.8	431.6	425.4	421.4
37.5°	568.9	529.7	501.2	472.6	454.8	437.0	428.0	412.4	406.6	396.8	388.8
40°	527.9	489.6	462.4	440.1	419.6	407.1	395.0	383.0	373.2	369.2	358.9
42.5°	486.0	456.6	429.4	404.4	392.4	379.0	362.9	354.9	344.7	337.5	332.2
45°	448.1	420.5	397.3	377.2	362.1	348.2	338.4	323.7	317.9	305.0	299.6
47.5°	414.7	387.9	365.6	346.0	330.8	322.8	308.5	295.6	287.6	278.7	271.1
50°	378.6	357.1	335.7	318.8	305.4	292.5	277.8	272.0	257.7	253.7	249.7
52.5°	345.6	325.5	306.3	289.8	276.4	264.0	251.5	243.5	235.0	231.0	228.3
55°	315.2	295.6	276.9	262.2	248.8	235.9	227.8	218.5	214.0	210.9	207.3
57.5°	284.0	266.2	251.5	236.3	222.9	212.2	202.4	197.1	192.6	189.1	184.1
60°	254.6	237.7	224.7	210.9	197.1	188.6	181.5	174.8	169.4	163.2	161.4
62.5°	223.4	209.1	197.5	184.1	172.6	165.0	158.3	152.0	145.4	135.5	132.9
65°	195.3	183.7	171.2	160.1	149.4	141.8	132.0	124.8	122.2	121.3	120.8
67.5°	169.4	158.3	147.6	136.0	126.2	117.7	111.9	111.0	109.2	108.8	107.5
70°	143.6	133.3	122.6	111.9	102.6	101.2	99.4	97.6	95.4	94.5	93.6
72.5°	120.4	109.7	99.0	91.0	88.3	86.5	84.7	82.9	81.6	80.7	80.3
75°	95.9	86.1	78.9	75.8	73.6	72.2	69.6	68.2	67.3	66.0	65.5
77.5°	73.1	66.9	63.3	61.5	58.9	57.5	55.7	54.4	53.1	53.1	52.2
80°	52.6	49.9	47.7	45.0	44.1	42.4	41.9	40.6	41.0	39.7	39.7
82.5°	37.9	34.3	32.5	31.7	30.8	29.4	29.0	28.5	28.5	27.6	27.6
85°	21.0	20.1	19.2	18.3	18.3	16.9	17.4	16.9	16.9	16.1	15.6
87.5°	8.5	8.0	7.1	7.1	7.1	6.7	6.7	6.2	6.2	6.2	5.8
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: P242419

CATALOG NUMBER: S122RDRP-S675D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1283.2	1283.2	1283.2	1283.2
2.5°	1219.5	1220.4	1219.0	1219.9
5°	1148.1	1142.8	1141.9	1140.6
7.5°	1063.9	1063.4	1060.7	1057.6
10°	983.2	980.9	980.5	977.4
12.5°	888.6	871.2	869.5	860.5
15°	772.7	770.0	761.1	755.3
17.5°	708.1	699.1	696.0	694.7
20°	646.1	638.1	636.7	635.8
22.5°	603.3	594.8	590.8	587.7
25°	553.3	550.2	548.4	547.5
27.5°	514.1	506.1	505.2	503.0
30°	481.5	479.3	476.2	473.5
32.5°	443.2	441.4	438.7	437.9
35°	416.9	410.7	408.0	404.0
37.5°	387.9	384.3	379.9	381.7
40°	353.1	350.9	350.0	349.6
42.5°	325.5	318.4	315.7	315.7
45°	297.4	291.6	287.6	288.0
47.5°	267.1	267.5	264.9	265.7
50°	246.6	243.9	242.1	242.6
52.5°	227.0	224.7	223.4	225.6
55°	205.1	202.4	202.0	201.5
57.5°	181.5	180.1	177.9	176.6
60°	155.6	152.0	147.6	147.1
62.5°	132.0	132.0	132.0	132.0
65°	119.9	119.5	119.9	120.4
67.5°	107.5	106.6	105.7	106.1
70°	92.7	92.3	91.9	91.9
72.5°	78.5	78.5	78.0	77.6
75°	65.1	64.2	64.2	64.2
77.5°	52.2	51.7	51.3	50.8
80°	39.2	38.8	38.3	38.3
82.5°	27.6	27.2	27.2	26.8
85°	16.1	16.5	16.1	16.9
87.5°	5.8	5.4	5.8	5.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242419
 CATALOG NUMBER: S122RDRP-S675D940-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	16.64	18.09	17.00	18.40	18.72	22.54	23.99	22.90	24.31	24.62
	3H	17.75	19.05	18.13	19.38	19.74	23.70	25.00	24.08	25.32	25.69
	4H	18.21	19.42	18.61	19.77	20.15	24.09	25.31	24.49	25.66	26.04
	6H	18.57	19.70	18.99	20.06	20.46	24.36	25.48	24.77	25.85	26.24
	8H	18.70	19.76	19.12	20.15	20.56	24.43	25.50	24.86	25.89	26.29
	12H	18.78	19.80	19.21	20.18	20.61	24.47	25.49	24.90	25.87	26.30
4H	2H	17.35	18.57	17.75	18.92	19.30	22.50	23.72	22.90	24.07	24.45
	3H	18.62	19.63	19.03	20.03	20.43	23.80	24.81	24.21	25.21	25.61
	4H	19.17	20.07	19.60	20.49	20.93	24.29	25.20	24.73	25.61	26.05
	6H	19.64	20.43	20.10	20.87	21.33	24.68	25.46	25.14	25.91	26.37
	8H	19.80	20.53	20.27	20.98	21.45	24.79	25.52	25.26	25.97	26.44
	12H	19.92	20.57	20.40	21.05	21.52	24.87	25.52	25.35	26.00	26.47
8H	4H	19.51	20.25	19.98	20.69	21.16	24.28	25.01	24.74	25.46	25.92
	6H	20.08	20.69	20.58	21.18	21.66	24.71	25.31	25.20	25.80	26.28
	8H	20.31	20.85	20.82	21.36	21.85	24.86	25.40	25.37	25.91	26.40
	12H	20.49	20.97	21.01	21.46	22.03	24.98	25.45	25.49	25.95	26.51
12H	4H	19.56	20.21	20.04	20.69	21.16	24.26	24.91	24.74	25.39	25.86
	6H	20.15	20.69	20.66	21.20	21.69	24.68	25.22	25.20	25.73	26.22
	8H	20.43	20.90	20.94	21.40	21.96	24.86	25.34	25.37	25.83	26.40