

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: P242389

Luminaire Tested: S122RDRP-S675D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242389
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-S675D927-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

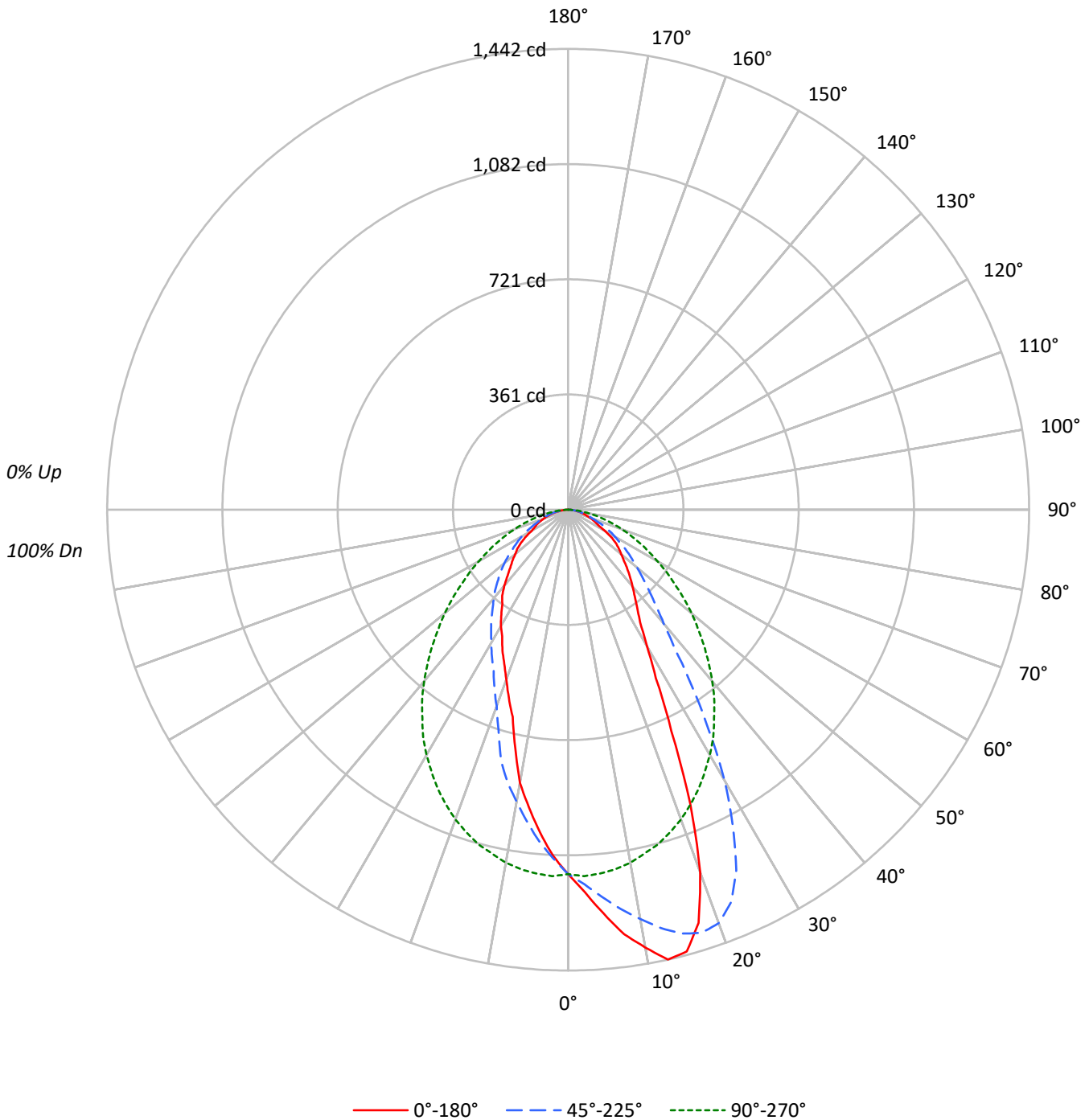
Lumens per Lamp: N/A
Luminaire Lumens: 1970.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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	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°	21714	21714	21714	21714	21714
5°	24252	23252	21851	19912	19375
10°	26906	25152	21697	17943	16794
15°	28231	27073	21380	16004	13232
20°	24474	27910	20909	13257	11451
25°	16051	26149	20262	11605	10223
30°	10804	21528	19480	10568	9253
35°	8750	15724	18495	9745	8345
40°	7780	11552	17423	8994	7723
45°	7041	9603	16165	8334	6893
50°	6410	8321	14920	7699	6386
55°	6024	7366	13536	6957	5944
60°	5040	6411	12267	6385	4979
65°	4250	5715	11141	5679	4823
70°	3926	4544	9947	5007	4544
75°	3672	4114	8655	4725	4195
80°	3389	3740	7130	4124	3740
85°	3125	3213	5617	3300	3300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 23549 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	5.5
10°-20°	301.8	15.3
20°-30°	388.4	19.7
30°-40°	368.5	18.7
40°-50°	315.7	16.0
50°-60°	240.5	12.2
60°-70°	151.7	7.7
70°-80°	75.7	3.8
80°-90°	19.5	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°	798.4	40.5
0°-40°	1166.9	59.2
0°-60°	1723.1	87.5
0°-90°	1970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1970.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1140	1140	1140	1140	1140	
5°	1268	1216	1143	1041	1013	125
15°	1432	1373	1084	812	671	389
25°	764	1244	964	552	486	361
35°	376	676	795	419	359	239
45°	261	356	600	309	256	202
55°	181	222	408	210	179	160
65°	94	127	247	126	107	95
75°	50	56	118	64	57	53
85°	14	15	26	15	15	16
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°	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0
2.5°	1197.8	1199.0	1200.2	1197.4	1197.4	1195.1	1189.9	1186.0	1174.9	1173.3	1173.3
5°	1268.4	1267.6	1269.1	1264.0	1256.9	1255.3	1247.8	1237.9	1227.6	1216.1	1213.7
7.5°	1339.7	1334.9	1332.9	1335.3	1327.8	1317.5	1304.8	1292.9	1275.1	1260.4	1251.3
10°	1391.1	1404.2	1396.3	1382.4	1385.2	1366.6	1356.7	1339.7	1325.4	1300.4	1294.9
12.5°	1441.8	1445.0	1443.8	1437.5	1432.3	1420.9	1406.6	1392.3	1363.0	1341.2	1318.3
15°	1431.6	1439.1	1441.1	1438.7	1440.7	1439.9	1432.7	1420.5	1397.5	1372.9	1351.5
17.5°	1355.5	1364.2	1371.3	1377.7	1387.6	1407.0	1412.9	1415.3	1405.8	1388.4	1370.5
20°	1207.4	1198.6	1235.1	1253.7	1269.5	1309.2	1343.2	1356.3	1377.3	1376.9	1372.9
22.5°	997.4	1002.2	1036.2	1059.2	1113.1	1152.7	1192.7	1250.9	1296.5	1330.1	1350.7
25°	763.7	778.8	813.2	843.3	894.8	968.5	1035.4	1113.1	1186.4	1244.2	1299.2
27.5°	594.2	596.1	627.4	657.9	689.6	753.4	842.9	936.0	1040.6	1115.8	1210.9
30°	491.2	488.8	500.3	517.3	543.5	590.2	653.6	744.7	848.9	978.8	1094.5
32.5°	418.3	419.1	427.0	438.5	459.1	486.8	525.2	595.0	692.0	819.2	959.8
35°	376.3	375.9	382.2	391.4	400.5	420.7	450.4	489.2	556.9	676.2	814.8
37.5°	341.4	343.4	346.2	352.1	363.2	375.1	393.7	421.1	472.6	546.6	671.0
40°	312.9	313.7	318.1	322.8	328.8	337.5	352.1	373.1	408.4	464.6	549.8
42.5°	286.8	287.6	290.4	294.7	299.1	307.8	319.3	336.7	363.6	404.4	471.0
45°	261.4	261.4	264.2	266.2	271.3	279.3	289.2	304.2	324.0	356.5	403.2
47.5°	236.9	236.9	238.9	242.4	246.0	252.3	262.6	275.3	289.6	316.1	357.7
50°	216.3	216.7	217.9	220.6	222.6	228.2	235.7	246.4	261.4	280.8	314.1
52.5°	199.6	199.2	200.8	201.6	202.8	206.4	211.5	220.6	233.7	249.9	276.1
55°	181.4	179.8	182.2	184.2	185.4	187.0	190.1	196.1	207.6	221.8	242.4
57.5°	160.0	159.2	160.4	162.4	166.0	169.9	171.9	175.9	181.8	192.9	214.7
60°	132.3	132.3	135.9	137.1	141.4	147.0	152.5	155.7	161.6	168.3	183.4
62.5°	107.7	108.1	109.3	110.5	112.5	119.6	127.9	135.9	141.4	147.7	156.5
65°	94.3	95.1	95.1	95.9	97.4	99.0	102.2	107.7	117.6	126.8	134.3
67.5°	82.4	82.4	82.8	83.6	84.0	86.0	87.1	89.9	91.9	102.2	112.5
70°	70.5	71.7	71.3	72.1	72.5	73.3	74.9	76.1	79.6	81.6	87.1
72.5°	59.4	60.2	60.2	60.6	61.8	61.8	63.0	64.2	66.2	67.7	70.1
75°	49.9	49.5	49.9	50.7	51.1	51.5	51.5	53.1	54.3	55.9	57.8
77.5°	40.4	40.8	40.8	40.8	40.8	41.6	41.6	42.4	43.6	44.4	45.6
80°	30.9	31.3	30.9	31.3	31.7	32.1	31.7	32.1	33.3	34.1	34.1
82.5°	22.2	22.2	22.6	22.6	22.6	22.6	23.4	23.4	24.2	23.8	24.2
85°	14.3	13.9	13.9	13.9	14.3	14.7	14.3	14.3	14.7	14.7	14.7
87.5°	6.3	6.7	6.7	6.7	6.7	6.7	6.7	7.1	6.7	7.1	6.7
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°	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0
2.5°	1174.1	1170.9	1168.1	1161.0	1157.4	1149.5	1148.3	1147.9	1137.6	1127.7	1125.0
5°	1207.4	1201.0	1191.5	1180.4	1168.9	1157.0	1149.1	1142.8	1126.9	1111.9	1103.2
7.5°	1240.2	1228.7	1213.7	1194.7	1178.4	1159.4	1146.3	1134.5	1112.7	1092.9	1079.8
10°	1277.9	1255.7	1233.9	1205.0	1182.4	1160.2	1139.6	1121.8	1096.4	1067.9	1047.7
12.5°	1301.2	1276.3	1244.2	1216.1	1185.2	1155.5	1126.1	1102.0	1071.1	1041.4	1016.4
15°	1321.8	1295.7	1259.2	1218.8	1181.2	1144.4	1112.7	1084.2	1045.3	1010.1	980.8
17.5°	1340.8	1304.8	1267.2	1220.4	1178.8	1134.1	1094.1	1058.4	1016.0	974.4	941.2
20°	1349.2	1313.5	1268.4	1221.6	1170.1	1115.1	1071.1	1031.5	985.1	938.8	899.2
22.5°	1344.0	1318.3	1266.8	1208.5	1155.5	1097.2	1046.1	998.6	945.9	898.4	850.8
25°	1317.1	1307.6	1260.0	1199.0	1138.8	1071.9	1014.4	964.1	905.5	854.8	804.9
27.5°	1267.6	1281.4	1247.8	1181.6	1116.6	1044.5	982.0	925.3	865.5	808.9	759.0
30°	1189.1	1236.3	1223.6	1163.4	1088.5	1018.0	945.5	885.7	820.7	762.1	713.0
32.5°	1081.8	1167.3	1186.0	1138.0	1060.0	980.8	903.9	844.5	776.0	713.4	665.9
35°	966.5	1083.0	1136.4	1104.4	1026.7	943.1	864.7	795.4	727.3	666.3	618.7
37.5°	829.9	985.1	1067.5	1064.0	989.9	904.7	819.6	751.0	680.9	620.7	571.2
40°	697.6	869.5	985.5	1011.3	951.1	857.2	770.8	700.7	632.6	574.0	514.9
42.5°	578.7	749.8	899.2	948.7	903.9	810.8	724.1	650.0	584.3	529.6	469.0
45°	487.2	636.9	794.2	874.2	847.7	761.3	669.8	600.1	537.9	490.0	432.2
47.5°	421.9	530.8	688.8	793.4	790.2	708.2	617.1	550.2	491.6	447.2	398.1
50°	367.6	459.5	588.2	711.0	721.3	655.2	569.6	503.5	449.6	402.5	364.8
52.5°	318.9	390.6	503.1	619.5	653.6	598.5	516.1	456.3	404.4	362.0	331.2
55°	277.7	336.3	424.2	534.4	578.7	538.3	464.6	407.6	365.2	328.8	301.0
57.5°	241.6	287.6	360.9	453.2	503.5	476.1	413.1	366.0	328.4	294.3	272.1
60°	208.0	244.0	303.8	377.9	434.9	417.1	365.2	322.0	291.1	262.6	242.0
62.5°	176.3	206.0	255.1	311.7	362.8	358.1	318.1	283.6	257.5	232.1	215.5
65°	147.0	169.5	209.5	256.7	298.7	302.2	271.7	247.2	223.0	202.4	187.0
67.5°	121.6	137.1	167.2	208.8	240.8	251.9	231.3	211.5	191.7	175.1	161.2
70°	98.6	110.5	131.1	163.2	192.1	204.0	193.3	178.6	162.0	148.9	137.5
72.5°	75.3	86.7	100.6	122.0	145.8	158.8	156.9	147.4	134.7	124.4	113.7
75°	60.2	63.8	74.1	89.9	109.3	120.4	123.2	117.6	107.0	98.6	92.3
77.5°	46.7	49.1	54.7	64.2	77.6	87.5	91.9	91.1	83.2	77.6	71.7
80°	35.7	36.8	39.2	42.8	52.3	62.2	65.0	65.0	59.8	57.8	51.9
82.5°	25.0	25.7	26.9	28.5	31.7	40.0	43.2	44.0	41.2	38.4	34.1
85°	15.4	15.1	15.8	17.0	17.8	20.2	25.0	25.7	25.0	21.8	20.6
87.5°	6.7	7.1	7.1	6.7	7.1	7.5	9.5	11.5	9.9	8.7	7.9
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°	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0	1140.0
2.5°	1119.8	1117.0	1111.9	1104.0	1099.2	1090.9	1085.3	1088.5	1089.3	1088.5	1087.7
5°	1093.7	1085.3	1073.9	1062.8	1052.5	1041.4	1035.0	1032.3	1026.7	1023.6	1022.0
7.5°	1064.0	1051.7	1035.4	1017.6	1001.0	985.1	978.0	972.5	962.2	956.6	951.5
10°	1029.9	1007.3	991.1	965.7	950.3	927.7	912.2	912.6	897.2	888.5	882.1
12.5°	992.3	966.9	937.2	915.0	892.0	875.0	855.6	846.1	829.5	821.1	801.3
15°	949.9	921.0	892.4	861.5	839.8	811.6	784.7	751.8	725.3	702.3	696.0
17.5°	904.7	869.1	840.9	809.3	775.2	724.1	690.8	670.6	654.8	642.9	633.4
20°	858.0	821.5	791.0	736.4	686.1	654.0	631.0	616.4	599.7	586.6	579.5
22.5°	808.9	770.4	726.1	663.5	627.0	602.9	583.1	565.6	555.7	546.2	539.9
25°	762.9	721.3	652.8	610.8	579.1	552.2	537.9	527.6	515.7	501.9	495.5
27.5°	715.0	648.8	596.9	566.4	534.0	516.9	504.6	487.6	476.9	471.8	464.6
30°	659.9	593.8	555.3	521.3	499.9	480.5	465.4	456.7	446.4	435.7	431.4
32.5°	598.5	549.0	512.6	485.6	463.8	448.0	436.9	421.5	414.7	409.2	398.9
35°	549.8	509.8	476.1	453.2	432.6	419.1	405.2	396.9	383.4	377.9	374.3
37.5°	505.4	470.6	445.2	419.9	404.0	388.2	380.3	366.4	361.3	352.5	345.4
40°	469.0	434.9	410.8	391.0	372.7	361.7	351.0	340.3	331.5	328.0	318.9
42.5°	431.8	405.6	381.5	359.3	348.6	336.7	322.4	315.3	306.2	299.9	295.1
45°	398.1	373.5	352.9	335.1	321.6	309.4	300.6	287.6	282.4	270.9	266.2
47.5°	368.4	344.6	324.8	307.4	293.9	286.8	274.1	262.6	255.5	247.6	240.8
50°	336.3	317.3	298.3	283.2	271.3	259.8	246.8	241.6	229.0	225.4	221.8
52.5°	307.0	289.2	272.1	257.5	245.6	234.5	223.4	216.3	208.8	205.2	202.8
55°	280.1	262.6	246.0	232.9	221.0	209.5	202.4	194.1	190.1	187.4	184.2
57.5°	252.3	236.5	223.4	209.9	198.1	188.5	179.8	175.1	171.1	168.0	163.6
60°	226.2	211.1	199.6	187.4	175.1	167.6	161.2	155.3	150.5	145.0	143.4
62.5°	198.5	185.8	175.5	163.6	153.3	146.6	140.6	135.1	129.1	120.4	118.0
65°	173.5	163.2	152.1	142.2	132.7	126.0	117.2	110.9	108.5	107.7	107.3
67.5°	150.5	140.6	131.1	120.8	112.1	104.6	99.4	98.6	97.0	96.7	95.5
70°	127.5	118.4	108.9	99.4	91.1	89.9	88.3	86.7	84.8	84.0	83.2
72.5°	107.0	97.4	87.9	80.8	78.4	76.8	75.3	73.7	72.5	71.7	71.3
75°	85.2	76.4	70.1	67.3	65.4	64.2	61.8	60.6	59.8	58.6	58.2
77.5°	65.0	59.4	56.2	54.7	52.3	51.1	49.5	48.3	47.1	47.1	46.3
80°	46.7	44.4	42.4	40.0	39.2	37.6	37.2	36.0	36.4	35.3	35.3
82.5°	33.7	30.5	28.9	28.1	27.3	26.1	25.7	25.4	25.4	24.6	24.6
85°	18.6	17.8	17.0	16.2	16.2	15.1	15.4	15.1	15.1	14.3	13.9
87.5°	7.5	7.1	6.3	6.3	6.3	5.9	5.9	5.5	5.5	5.5	5.1
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: P242389

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1140.0	1140.0	1140.0	1140.0
2.5°	1083.4	1084.2	1083.0	1083.8
5°	1020.0	1015.2	1014.4	1013.3
7.5°	945.1	944.7	942.4	939.6
10°	873.4	871.4	871.1	868.3
12.5°	789.5	774.0	772.4	764.5
15°	686.5	684.1	676.2	671.0
17.5°	629.0	621.1	618.3	617.1
20°	574.0	566.8	565.6	564.9
22.5°	535.9	528.4	524.8	522.1
25°	491.6	488.8	487.2	486.4
27.5°	456.7	449.6	448.8	446.8
30°	427.8	425.8	423.0	420.7
32.5°	393.7	392.2	389.8	389.0
35°	370.4	364.8	362.4	358.9
37.5°	344.6	341.4	337.5	339.1
40°	313.7	311.7	310.9	310.6
42.5°	289.2	282.8	280.4	280.4
45°	264.2	259.1	255.5	255.9
47.5°	237.3	237.7	235.3	236.1
50°	219.1	216.7	215.1	215.5
52.5°	201.6	199.6	198.5	200.4
55°	182.2	179.8	179.4	179.0
57.5°	161.2	160.0	158.0	156.9
60°	138.2	135.1	131.1	130.7
62.5°	117.2	117.2	117.2	117.2
65°	106.6	106.2	106.6	107.0
67.5°	95.5	94.7	93.9	94.3
70°	82.4	82.0	81.6	81.6
72.5°	69.7	69.7	69.3	68.9
75°	57.8	57.0	57.0	57.0
77.5°	46.3	45.9	45.6	45.2
80°	34.9	34.5	34.1	34.1
82.5°	24.6	24.2	24.2	23.8
85°	14.3	14.7	14.3	15.1
87.5°	5.1	4.8	5.1	4.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242389

CATALOG NUMBER: S122RDRP-S675D927-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	16.23	17.68	16.59	17.99	18.31	22.13	23.58	22.49	23.89	24.21
	3H	17.34	18.64	17.72	18.97	19.33	23.29	24.58	23.66	24.91	25.28
	4H	17.80	19.01	18.20	19.36	19.74	23.68	24.90	24.08	25.25	25.63
	6H	18.16	19.28	18.58	19.65	20.05	23.95	25.07	24.36	25.44	25.83
	8H	18.29	19.35	18.71	19.74	20.14	24.02	25.08	24.45	25.47	25.88
	12H	18.37	19.39	18.80	19.77	20.20	24.05	25.07	24.49	25.46	25.89
4H	2H	16.94	18.16	17.34	18.51	18.89	22.09	23.31	22.49	23.66	24.04
	3H	18.21	19.22	18.62	19.62	20.02	23.39	24.39	23.80	24.80	25.20
	4H	18.76	19.66	19.19	20.08	20.52	23.88	24.79	24.32	25.20	25.64
	6H	19.23	20.02	19.69	20.46	20.92	24.27	25.05	24.73	25.49	25.96
	8H	19.39	20.12	19.86	20.57	21.04	24.38	25.11	24.85	25.56	26.03
	12H	19.51	20.16	19.99	20.64	21.11	24.46	25.11	24.94	25.59	26.06
8H	4H	19.10	19.84	19.57	20.28	20.75	23.87	24.60	24.33	25.04	25.51
	6H	19.67	20.28	20.17	20.77	21.25	24.29	24.90	24.79	25.39	25.87
	8H	19.90	20.44	20.41	20.95	21.44	24.44	24.98	24.96	25.50	25.99
	12H	20.08	20.56	20.60	21.05	21.62	24.57	25.04	25.08	25.54	26.10
12H	4H	19.14	19.80	19.63	20.28	20.75	23.84	24.50	24.33	24.98	25.45
	6H	19.74	20.28	20.25	20.79	21.28	24.27	24.81	24.78	25.32	25.81
	8H	20.02	20.49	20.53	20.99	21.55	24.45	24.93	24.96	25.42	25.99