

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: P242398

Luminaire Tested: S122RDRP-S485D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242398
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-S485D835-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

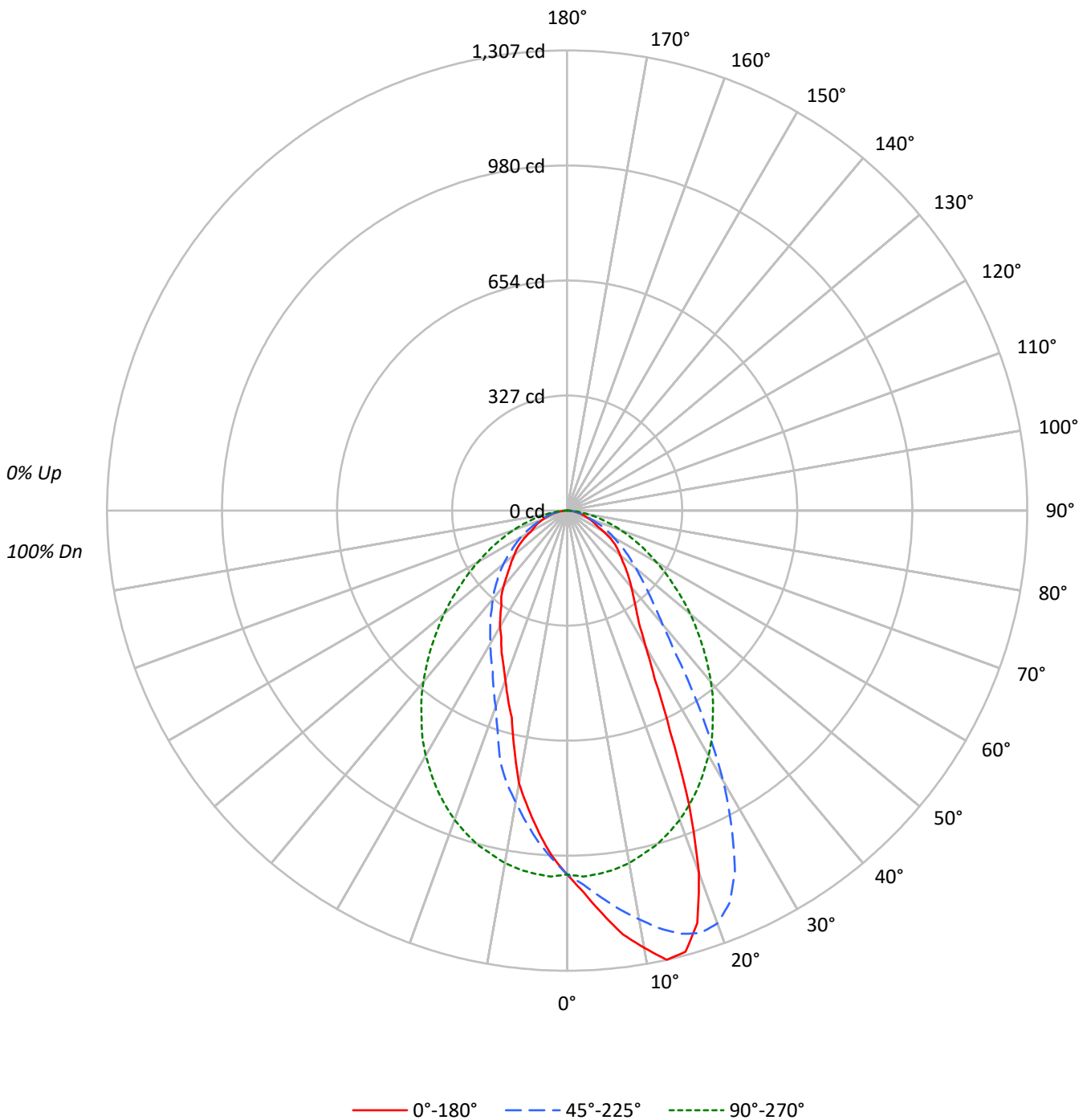
Lumens per Lamp: N/A
Luminaire Lumens: 1785.6 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 18.8
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	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°	19682	19682	19682	19682	19682
5°	21981	21075	19805	18048	17560
10°	24388	22798	19666	16264	15222
15°	25586	24539	19378	14508	11993
20°	22182	25297	18951	12016	10378
25°	14548	23701	18367	10519	9266
30°	9792	19513	17657	9579	8386
35°	7932	14252	16763	8834	7564
40°	7052	10471	15792	8151	7000
45°	6384	8704	14651	7553	6247
50°	5808	7545	13522	6979	5787
55°	5460	6678	12267	6306	5390
60°	4568	5813	11120	5787	4514
65°	3849	5179	10096	5147	4367
70°	3559	4121	9016	4539	4121
75°	3326	3724	7845	4283	3805
80°	3071	3389	6461	3740	3389
85°	2819	2907	5092	2972	2972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 21345 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	5.5
10°-20°	273.6	15.3
20°-30°	352.1	19.7
30°-40°	334.0	18.7
40°-50°	286.2	16.0
50°-60°	218.0	12.2
60°-70°	137.5	7.7
70°-80°	68.6	3.8
80°-90°	17.6	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°	723.6	40.5
0°-40°	1057.6	59.2
0°-60°	1561.8	87.5
0°-90°	1785.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1033	1033	1033	1033	1033	
5°	1150	1102	1036	944	918	113
15°	1298	1244	983	736	608	353
25°	692	1128	874	500	441	327
35°	341	613	721	380	325	217
45°	237	323	544	280	232	183
55°	164	201	369	190	162	145
65°	85	115	224	114	97	86
75°	45	51	107	58	52	48
85°	13	13	23	14	14	14
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°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1085.7	1086.8	1087.9	1085.4	1085.4	1083.2	1078.5	1074.9	1064.9	1063.5	1063.5
5°	1149.6	1148.9	1150.3	1145.7	1139.2	1137.8	1131.0	1122.0	1112.6	1102.2	1100.1
7.5°	1214.2	1209.9	1208.1	1210.3	1203.5	1194.1	1182.7	1171.9	1155.7	1142.4	1134.2
10°	1260.9	1272.8	1265.6	1253.0	1255.5	1238.7	1229.7	1214.2	1201.3	1178.7	1173.7
12.5°	1306.9	1309.8	1308.7	1302.9	1298.3	1287.8	1274.9	1262.0	1235.4	1215.7	1194.9
15°	1297.5	1304.4	1306.2	1304.0	1305.8	1305.1	1298.6	1287.5	1266.7	1244.4	1225.0
17.5°	1228.6	1236.5	1243.0	1248.7	1257.7	1275.3	1280.7	1282.8	1274.2	1258.4	1242.3
20°	1094.3	1086.4	1119.5	1136.3	1150.7	1186.6	1217.5	1229.3	1248.4	1248.0	1244.4
22.5°	904.0	908.4	939.2	960.1	1008.9	1044.8	1081.0	1133.8	1175.1	1205.6	1224.3
25°	692.2	705.9	737.1	764.4	811.1	877.8	938.5	1008.9	1075.3	1127.7	1177.6
27.5°	538.5	540.3	568.7	596.4	625.1	682.9	764.0	848.4	943.2	1011.4	1097.6
30°	445.2	443.0	453.5	468.9	492.6	535.0	592.4	675.0	769.4	887.2	992.0
32.5°	379.1	379.9	387.0	397.4	416.1	441.3	476.1	539.3	627.2	742.5	869.9
35°	341.1	340.7	346.5	354.7	363.0	381.3	408.2	443.4	504.8	612.9	738.5
37.5°	309.5	311.3	313.8	319.2	329.2	340.0	356.9	381.7	428.3	495.5	608.2
40°	283.6	284.4	288.3	292.6	298.0	305.9	319.2	338.2	370.2	421.1	498.3
42.5°	259.9	260.7	263.2	267.1	271.1	279.0	289.4	305.2	329.6	366.6	426.9
45°	237.0	237.0	239.5	241.3	245.9	253.1	262.1	275.7	293.7	323.1	365.5
47.5°	214.7	214.7	216.5	219.7	223.0	228.7	238.0	249.5	262.5	286.5	324.2
50°	196.0	196.4	197.5	200.0	201.8	206.8	213.6	223.3	237.0	254.6	284.7
52.5°	181.0	180.6	182.0	182.7	183.8	187.1	191.7	200.0	211.8	226.5	250.2
55°	164.4	163.0	165.2	167.0	168.0	169.5	172.3	177.7	188.1	201.1	219.7
57.5°	145.0	144.3	145.4	147.2	150.4	154.0	155.8	159.4	164.8	174.8	194.6
60°	119.9	119.9	123.1	124.2	128.2	133.2	138.2	141.1	146.5	152.6	166.2
62.5°	97.7	98.0	99.1	100.2	102.0	108.4	116.0	123.1	128.2	133.9	141.8
65°	85.4	86.2	86.2	86.9	88.3	89.8	92.6	97.7	106.6	114.9	121.7
67.5°	74.7	74.7	75.0	75.8	76.1	77.9	79.0	81.5	83.3	92.6	102.0
70°	63.9	65.0	64.6	65.3	65.7	66.4	67.9	68.9	72.2	74.0	79.0
72.5°	53.9	54.6	54.6	54.9	56.0	56.0	57.1	58.2	60.0	61.4	63.5
75°	45.2	44.9	45.2	46.0	46.3	46.7	46.7	48.1	49.2	50.6	52.4
77.5°	36.6	37.0	37.0	37.0	37.0	37.7	37.7	38.4	39.5	40.2	41.3
80°	28.0	28.4	28.0	28.4	28.7	29.1	28.7	29.1	30.2	30.9	30.9
82.5°	20.1	20.1	20.5	20.5	20.5	20.5	21.2	21.2	21.9	21.5	21.9
85°	12.9	12.6	12.6	12.6	12.9	13.3	12.9	12.9	13.3	13.3	13.3
87.5°	5.7	6.1	6.1	6.1	6.1	6.1	6.1	6.5	6.1	6.5	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°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1064.2	1061.3	1058.8	1052.3	1049.1	1041.9	1040.8	1040.5	1031.1	1022.2	1019.7
5°	1094.3	1088.6	1080.0	1069.9	1059.5	1048.7	1041.6	1035.8	1021.4	1007.8	999.9
7.5°	1124.1	1113.7	1100.1	1082.8	1068.1	1050.9	1039.0	1028.3	1008.5	990.6	978.7
10°	1158.2	1138.1	1118.4	1092.2	1071.7	1051.6	1032.9	1016.8	993.8	968.0	949.6
12.5°	1179.4	1156.8	1127.7	1102.2	1074.2	1047.3	1020.7	998.8	970.8	943.9	921.3
15°	1198.1	1174.4	1141.4	1104.7	1070.6	1037.2	1008.5	982.7	947.5	915.5	889.0
17.5°	1215.3	1182.7	1148.5	1106.2	1068.5	1027.9	991.6	959.3	920.9	883.2	853.1
20°	1222.9	1190.6	1149.6	1107.3	1060.6	1010.7	970.8	934.9	892.9	850.9	815.0
22.5°	1218.2	1194.9	1148.2	1095.4	1047.3	994.5	948.2	905.1	857.4	814.3	771.2
25°	1193.8	1185.2	1142.1	1086.8	1032.2	971.5	919.5	873.9	820.7	774.8	729.6
27.5°	1148.9	1161.5	1131.0	1071.0	1012.1	946.8	890.0	838.7	784.5	733.1	687.9
30°	1077.8	1120.5	1109.1	1054.5	986.6	922.7	857.0	802.8	743.9	690.8	646.3
32.5°	980.5	1058.1	1074.9	1031.5	960.8	889.0	819.3	765.5	703.3	646.6	603.5
35°	876.0	981.6	1030.1	1001.0	930.6	854.9	783.8	720.9	659.2	603.9	560.8
37.5°	752.2	892.9	967.6	964.4	897.2	820.0	742.8	680.7	617.2	562.6	517.7
40°	632.3	788.1	893.3	916.6	862.0	776.9	698.7	635.1	573.4	520.2	466.7
42.5°	524.5	679.6	815.0	859.9	819.3	734.9	656.3	589.2	529.6	480.0	425.1
45°	441.6	577.3	719.9	792.4	768.3	690.1	607.1	543.9	487.6	444.1	391.7
47.5°	382.4	481.1	624.4	719.1	716.3	641.9	559.4	498.7	445.6	405.3	360.8
50°	333.2	416.5	533.2	644.5	653.8	593.8	516.3	456.3	407.5	364.8	330.7
52.5°	289.0	354.0	456.0	561.5	592.4	542.5	467.8	413.6	366.6	328.2	300.2
55°	251.7	304.8	384.5	484.3	524.5	487.9	421.1	369.4	331.0	298.0	272.9
57.5°	219.0	260.7	327.1	410.7	456.3	431.6	374.5	331.7	297.6	266.8	246.7
60°	188.5	221.2	275.4	342.5	394.2	378.1	331.0	291.9	263.9	238.0	219.4
62.5°	159.8	186.7	231.2	282.6	328.9	324.6	288.3	257.1	233.4	210.4	195.3
65°	133.2	153.7	189.9	232.7	270.7	273.9	246.3	224.0	202.1	183.5	169.5
67.5°	110.2	124.2	151.5	189.2	218.3	228.3	209.7	191.7	173.8	158.7	146.1
70°	89.4	100.2	118.8	147.9	174.1	184.9	175.2	161.9	146.8	135.0	124.6
72.5°	68.2	78.6	91.2	110.6	132.1	144.0	142.2	133.6	122.1	112.7	103.0
75°	54.6	57.8	67.1	81.5	99.1	109.1	111.7	106.6	96.9	89.4	83.7
77.5°	42.4	44.5	49.5	58.2	70.4	79.3	83.3	82.6	75.4	70.4	65.0
80°	32.3	33.4	35.5	38.8	47.4	56.4	58.9	58.9	54.2	52.4	47.0
82.5°	22.6	23.3	24.4	25.9	28.7	36.3	39.1	39.9	37.3	34.8	30.9
85°	14.0	13.6	14.4	15.4	16.2	18.3	22.6	23.3	22.6	19.7	18.7
87.5°	6.1	6.5	6.5	6.1	6.5	6.8	8.6	10.4	9.0	7.9	7.2
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°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1015.0	1012.5	1007.8	1000.6	996.3	988.8	983.7	986.6	987.3	986.6	985.9
5°	991.3	983.7	973.3	963.3	953.9	943.9	938.2	935.6	930.6	927.7	926.3
7.5°	964.4	953.2	938.5	922.4	907.3	892.9	886.5	881.4	872.1	867.1	862.4
10°	933.5	913.0	898.3	875.3	861.3	840.9	826.9	827.2	813.2	805.3	799.6
12.5°	899.4	876.4	849.5	829.4	808.5	793.1	775.5	766.9	751.8	744.3	726.3
15°	861.0	834.8	808.9	780.9	761.1	735.7	711.2	681.4	657.4	636.6	630.8
17.5°	820.0	787.7	762.2	733.5	702.6	656.3	626.2	607.8	593.5	582.7	574.1
20°	777.7	744.6	717.0	667.4	621.8	592.8	571.9	558.7	543.6	531.7	525.3
22.5°	733.1	698.3	658.1	601.4	568.3	546.4	528.5	512.7	503.7	495.1	489.4
25°	691.5	653.8	591.7	553.6	524.9	500.5	487.6	478.2	467.5	454.9	449.1
27.5°	648.1	588.1	541.1	513.4	484.0	468.5	457.4	442.0	432.3	427.6	421.1
30°	598.1	538.2	503.4	472.5	453.1	435.5	421.9	414.0	404.6	394.9	391.0
32.5°	542.5	497.6	464.6	440.2	420.4	406.1	396.0	382.0	375.9	370.9	361.5
35°	498.3	462.1	431.6	410.7	392.1	379.9	367.3	359.8	347.5	342.5	339.3
37.5°	458.1	426.5	403.6	380.6	366.2	351.9	344.7	332.1	327.4	319.5	313.1
40°	425.1	394.2	372.3	354.4	337.8	327.8	318.1	308.4	300.5	297.3	289.0
42.5°	391.3	367.6	345.7	325.6	315.9	305.2	292.3	285.8	277.5	271.8	267.5
45°	360.8	338.6	319.9	303.7	291.5	280.4	272.5	260.7	256.0	245.6	241.3
47.5°	333.9	312.4	294.4	278.6	266.4	259.9	248.5	238.0	231.6	224.4	218.3
50°	304.8	287.6	270.4	256.7	245.9	235.5	223.7	219.0	207.5	204.3	201.1
52.5°	278.3	262.1	246.7	233.4	222.6	212.5	202.5	196.0	189.2	186.0	183.8
55°	253.8	238.0	223.0	211.1	200.3	189.9	183.5	175.9	172.3	169.8	167.0
57.5°	228.7	214.3	202.5	190.3	179.5	170.9	163.0	158.7	155.1	152.2	148.3
60°	205.0	191.4	181.0	169.8	158.7	151.9	146.1	140.7	136.4	131.4	130.0
62.5°	179.9	168.4	159.1	148.3	138.9	132.8	127.5	122.4	117.0	109.1	107.0
65°	157.3	147.9	137.9	128.9	120.3	114.2	106.3	100.5	98.4	97.7	97.3
67.5°	136.4	127.5	118.8	109.5	101.6	94.8	90.1	89.4	88.0	87.6	86.5
70°	115.6	107.4	98.7	90.1	82.6	81.5	80.1	78.6	76.8	76.1	75.4
72.5°	96.9	88.3	79.7	73.2	71.1	69.7	68.2	66.8	65.7	65.0	64.6
75°	77.2	69.3	63.5	61.0	59.2	58.2	56.0	54.9	54.2	53.1	52.8
77.5°	58.9	53.9	51.0	49.5	47.4	46.3	44.9	43.8	42.7	42.7	42.0
80°	42.4	40.2	38.4	36.3	35.5	34.1	33.7	32.7	33.0	32.0	32.0
82.5°	30.5	27.6	26.2	25.5	24.8	23.7	23.3	23.0	23.0	22.3	22.3
85°	16.9	16.2	15.4	14.7	14.7	13.6	14.0	13.6	13.6	12.9	12.6
87.5°	6.8	6.5	5.7	5.7	5.7	5.4	5.4	5.0	5.0	5.0	4.7
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: P242398

CATALOG NUMBER: S122RDRP-S485D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1033.3	1033.3	1033.3	1033.3
2.5°	982.0	982.7	981.6	982.3
5°	924.5	920.2	919.5	918.4
7.5°	856.7	856.3	854.1	851.6
10°	791.7	789.9	789.5	787.0
12.5°	715.6	701.5	700.1	692.9
15°	622.2	620.0	612.9	608.2
17.5°	570.1	563.0	560.4	559.4
20°	520.2	513.8	512.7	512.0
22.5°	485.8	478.9	475.7	473.2
25°	445.6	443.0	441.6	440.9
27.5°	414.0	407.5	406.8	405.0
30°	387.8	386.0	383.4	381.3
32.5°	356.9	355.4	353.3	352.6
35°	335.7	330.7	328.5	325.3
37.5°	312.4	309.5	305.9	307.3
40°	284.4	282.6	281.8	281.5
42.5°	262.1	256.3	254.2	254.2
45°	239.5	234.8	231.6	231.9
47.5°	215.1	215.4	213.3	214.0
50°	198.5	196.4	195.0	195.3
52.5°	182.7	181.0	179.9	181.7
55°	165.2	163.0	162.6	162.3
57.5°	146.1	145.0	143.3	142.2
60°	125.3	122.4	118.8	118.5
62.5°	106.3	106.3	106.3	106.3
65°	96.6	96.2	96.6	96.9
67.5°	86.5	85.8	85.1	85.4
70°	74.7	74.3	74.0	74.0
72.5°	63.2	63.2	62.8	62.5
75°	52.4	51.7	51.7	51.7
77.5°	42.0	41.6	41.3	40.9
80°	31.6	31.2	30.9	30.9
82.5°	22.3	21.9	21.9	21.5
85°	12.9	13.3	12.9	13.6
87.5°	4.7	4.3	4.7	4.3
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242398
 CATALOG NUMBER: S122RDRP-S485D835-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	15.89	17.34	16.25	17.65	17.97	21.79	23.24	22.15	23.55	23.87
	3H	17.00	18.30	17.38	18.63	18.99	22.94	24.24	23.32	24.57	24.93
	4H	17.45	18.67	17.85	19.02	19.40	23.34	24.55	23.74	24.90	25.28
	6H	17.82	18.94	18.23	19.31	19.70	23.60	24.73	24.02	25.09	25.49
	8H	17.94	19.01	18.37	19.40	19.80	23.68	24.74	24.10	25.13	25.53
	12H	18.03	19.05	18.46	19.43	19.86	23.71	24.73	24.14	25.12	25.55
4H	2H	16.60	17.81	17.00	18.16	18.54	21.75	22.97	22.15	23.32	23.70
	3H	17.87	18.87	18.28	19.27	19.68	23.05	24.05	23.46	24.45	24.86
	4H	18.42	19.32	18.85	19.74	20.18	23.54	24.44	23.97	24.86	25.30
	6H	18.89	19.67	19.35	20.12	20.58	23.93	24.71	24.38	25.15	25.62
	8H	19.05	19.78	19.51	20.23	20.70	24.04	24.77	24.51	25.22	25.69
	12H	19.17	19.82	19.65	20.30	20.77	24.12	24.77	24.60	25.25	25.72
8H	4H	18.76	19.49	19.23	19.94	20.41	23.53	24.26	23.99	24.70	25.17
	6H	19.33	19.93	19.83	20.43	20.91	23.95	24.56	24.45	25.05	25.53
	8H	19.56	20.10	20.07	20.61	21.10	24.10	24.64	24.62	25.15	25.64
	12H	19.74	20.22	20.25	20.71	21.28	24.22	24.70	24.74	25.19	25.76
12H	4H	18.80	19.45	19.29	19.93	20.41	23.50	24.15	23.99	24.63	25.11
	6H	19.39	19.94	19.91	20.45	20.94	23.93	24.47	24.44	24.98	25.47
	8H	19.67	20.15	20.18	20.64	21.21	24.11	24.59	24.62	25.08	25.65