

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P997718

Luminaire Tested: SA2XXRDP-B290DB35-4F0-XX-W2A-A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P997718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-B290DB35-4F0-XX-W2A-A
Description: Define 2 Regressed Direct Recessed with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

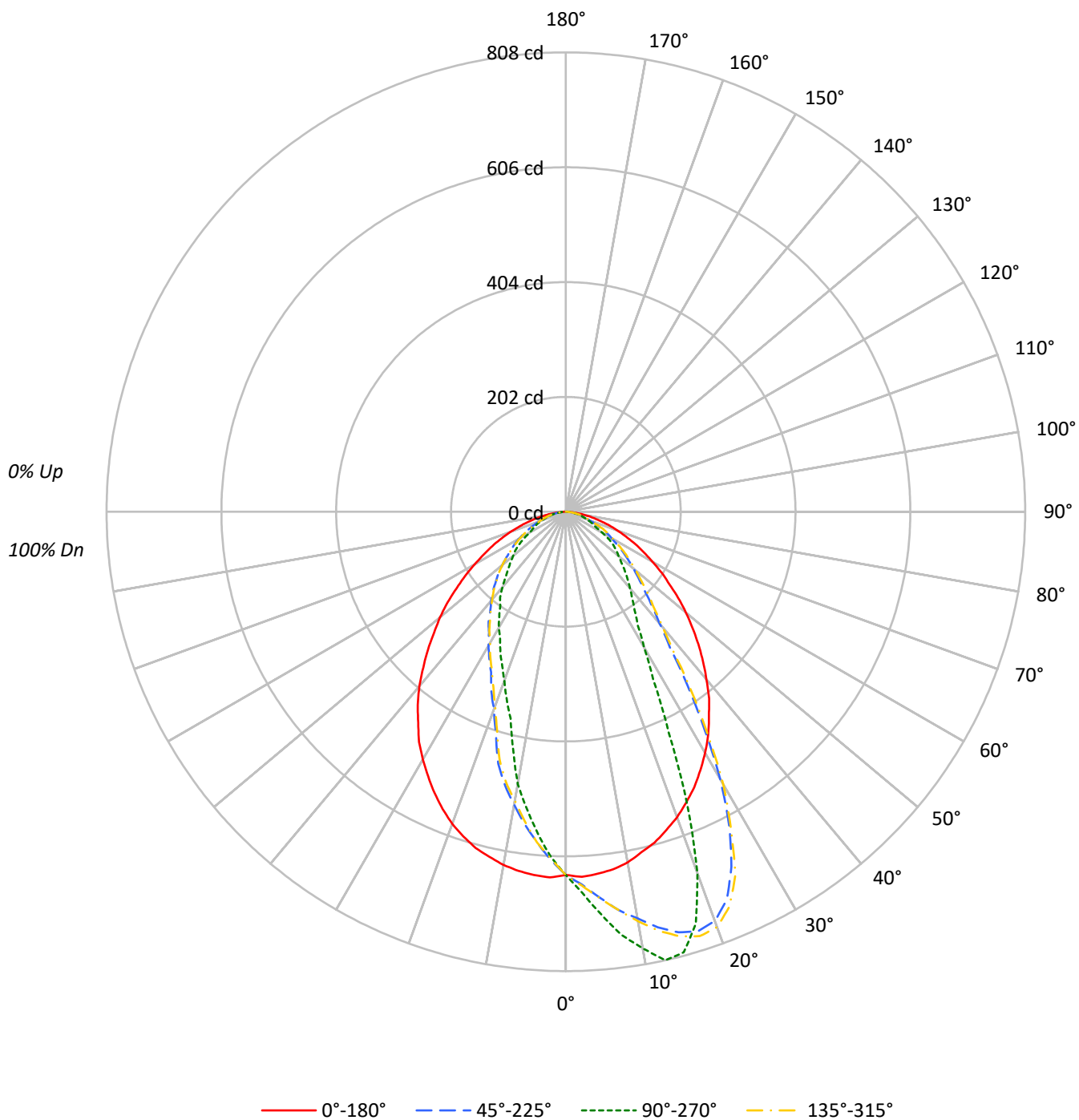
Lumens per Lamp: N/A
Luminaire Lumens: 1104.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V):
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: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

Luminous Intensity Polar Plot



TEST NUMBER: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

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	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°	90°	180°	270°
0°	10112	10112	10112	10112
5°	10158	11294	10193	9022
10°	10068	12531	10141	7821
15°	9872	13146	10039	6162
20°	9632	11397	9841	5331
25°	9335	7475	9538	4761
30°	8951	5030	9194	4308
35°	8476	4075	8750	3886
40°	7945	3624	8284	3595
45°	7374	3280	7683	3210
50°	6789	2985	7107	2975
55°	6138	2807	6469	2768
60°	5566	2346	5860	2321
65°	5038	1978	5337	2244
70°	4457	1828	4809	2115
75°	3853	1712	4208	1957
80°	3200	1577	3437	1741
85°	2506	1453	2742	1526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 160°

Vertical Angle: 45°

Luminance: 11101 cd/sqm

TEST NUMBER: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	5.5
10°-20°	169.1	15.3
20°-30°	217.7	19.7
30°-40°	206.5	18.7
40°-50°	177.0	16.0
50°-60°	134.8	12.2
60°-70°	85.0	7.7
70°-80°	42.4	3.8
80°-90°	10.9	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°	447.4	40.5
0°-40°	653.9	59.2
0°-60°	965.7	87.5
0°-90°	1104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1104.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	639	639	639	639	639	
5°	639	711	642	568	639	61
15°	602	802	613	376	602	169
25°	534	428	546	273	534	245
35°	439	211	453	201	439	274
45°	329	146	343	143	329	254
55°	222	102	234	100	222	200
65°	134	53	142	60	134	133
75°	63	28	69	32	63	68
85°	14	8	15	8	14	16
90°	0	0	0	0	0	

TEST NUMBER: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	642.8	645.5	646.8	648.6	652.6	655.3	659.3	660.2	659.7	661.5	656.6
5°	639.3	645.1	650.4	654.8	661.9	666.4	671.3	677.0	678.4	685.0	681.0
7.5°	634.4	642.8	650.4	659.3	669.9	675.7	683.2	692.1	696.1	704.1	706.3
10°	626.4	638.4	651.3	660.6	675.2	685.5	692.6	706.8	716.1	728.1	726.3
12.5°	613.5	629.1	646.4	661.9	681.0	687.7	701.0	715.6	727.6	738.7	748.5
15°	602.4	620.2	639.3	658.4	680.1	692.6	705.9	725.0	737.8	757.4	765.8
17.5°	587.3	610.0	632.6	653.9	679.7	693.9	710.3	729.0	748.1	766.7	773.4
20°	571.8	596.2	620.6	649.5	678.8	692.6	709.4	732.5	751.2	765.8	765.8
22.5°	553.2	582.9	610.9	638.4	670.4	690.3	707.7	734.7	748.1	751.2	739.2
25°	534.5	564.3	594.9	629.1	665.5	683.2	702.8	728.1	732.5	720.1	689.0
27.5°	512.3	545.6	580.2	617.1	655.3	677.5	695.2	712.1	703.7	670.4	622.0
30°	489.7	525.6	564.7	599.8	645.9	666.4	681.5	686.3	659.7	605.5	542.9
32.5°	466.1	501.2	542.5	584.7	631.3	650.8	660.6	647.7	598.9	530.5	454.2
35°	438.6	478.1	521.2	565.1	611.3	626.0	631.7	600.2	537.6	449.3	373.4
37.5°	413.8	453.3	499.4	544.3	589.1	597.1	591.3	542.1	462.6	375.1	301.0
40°	384.5	426.6	471.9	522.1	558.9	561.2	546.9	483.0	384.5	302.3	256.6
42.5°	357.4	400.0	445.3	496.3	524.3	516.8	497.7	413.8	321.0	260.6	223.8
45°	329.4	369.8	418.6	463.9	483.9	466.1	437.3	348.1	269.5	224.2	195.8
47.5°	302.3	340.1	388.5	432.0	435.5	415.5	381.4	291.7	233.5	197.1	174.0
50°	275.7	313.4	358.7	394.7	391.1	363.6	325.0	253.5	202.9	174.0	154.9
52.5°	249.1	283.2	327.2	355.6	340.5	313.9	275.7	214.9	177.1	151.8	137.2
55°	222.4	254.4	292.1	315.6	291.7	261.0	234.0	184.2	153.6	133.2	122.1
57.5°	200.2	225.5	260.2	274.4	245.5	221.5	198.0	158.5	133.2	118.5	105.7
60°	175.8	198.9	227.3	235.7	206.0	186.5	166.5	134.1	114.1	101.2	92.8
62.5°	154.9	174.0	195.8	195.8	169.6	154.9	139.8	112.3	95.9	85.7	81.7
65°	134.5	148.3	163.8	162.0	139.8	127.0	115.0	92.8	80.4	73.3	69.3
67.5°	114.5	125.2	135.4	129.2	113.2	102.1	91.0	75.0	66.6	61.7	56.4
70°	96.3	104.8	110.1	104.3	88.3	79.0	71.0	60.4	53.7	47.5	44.4
72.5°	80.8	84.4	86.1	79.0	65.7	60.4	54.6	47.1	41.3	38.2	37.3
75°	63.0	66.1	64.8	59.5	48.4	44.4	40.0	34.6	33.3	31.5	30.6
77.5°	49.3	49.3	47.1	42.2	34.6	31.5	29.7	27.1	25.7	25.3	24.4
80°	35.1	34.6	33.3	28.0	23.5	21.8	21.8	20.0	19.5	18.6	18.6
82.5°	23.1	23.1	21.3	16.9	15.5	15.1	14.7	13.8	13.8	13.3	13.3
85°	13.8	12.9	10.7	9.3	8.9	8.9	8.4	8.0	8.4	8.0	8.0
87.5°	6.2	4.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	661.5	662.4	663.7	669.9	670.8	672.6	671.7	671.7	672.1	671.3	671.7
5°	689.9	691.2	697.9	705.4	707.2	705.4	707.7	710.8	710.8	710.8	709.9
7.5°	716.5	721.4	729.0	740.1	742.3	744.5	748.5	745.8	746.7	750.7	749.4
10°	742.3	749.4	757.8	767.1	772.0	775.1	776.9	780.9	790.2	779.6	783.6
12.5°	766.7	776.9	785.8	796.0	799.6	803.5	804.9	808.4	808.4	808.0	811.1
15°	782.7	792.0	800.0	806.7	807.5	806.7	805.8	806.2	807.5	802.2	805.3
17.5°	786.2	787.1	789.8	787.1	787.6	778.2	772.9	771.6	759.2	759.6	769.8
20°	768.9	753.8	749.8	735.2	726.3	702.3	701.4	694.8	668.6	676.6	674.8
22.5°	721.4	695.7	661.5	644.6	636.2	610.9	591.3	577.6	568.3	558.9	554.9
25°	658.8	617.1	568.7	535.4	530.5	507.0	471.0	454.2	434.2	428.0	438.6
27.5°	578.0	523.9	469.3	418.2	408.9	387.6	369.4	357.4	334.3	333.0	333.8
30°	468.4	413.8	368.0	334.7	311.7	301.9	289.9	281.0	271.7	275.2	276.1
32.5°	384.9	333.0	290.3	272.6	261.9	255.7	245.5	239.7	235.7	234.4	234.0
35°	305.9	271.3	252.2	234.8	228.6	224.2	216.6	214.0	210.4	210.9	210.9
37.5°	261.9	233.1	218.9	210.0	204.2	202.0	197.1	194.4	192.2	191.3	192.7
40°	226.0	206.0	197.1	189.1	184.2	183.4	180.7	177.6	174.9	175.4	176.7
42.5°	199.8	188.2	177.6	171.4	167.8	166.5	164.3	162.0	162.0	160.7	160.3
45°	178.9	169.6	160.7	154.9	152.7	150.9	148.3	147.8	146.1	146.5	146.9
47.5°	160.3	152.7	146.1	140.3	138.1	137.6	135.0	133.2	133.2	132.7	132.3
50°	143.4	135.8	130.1	127.0	123.9	123.0	122.5	122.1	121.2	121.2	121.6
52.5°	129.6	122.1	117.6	115.0	113.2	112.3	112.3	111.9	111.9	111.9	111.4
55°	114.5	108.3	104.8	103.9	103.0	102.6	102.1	101.2	100.8	101.7	100.8
57.5°	100.3	98.1	95.0	94.1	91.9	91.9	90.6	89.7	88.8	89.7	89.7
60°	89.2	86.1	84.4	81.7	79.9	78.1	75.9	75.5	74.6	74.1	73.7
62.5°	77.7	75.0	70.6	66.6	63.9	62.2	61.3	60.8	60.8	60.4	60.4
65°	64.8	58.6	56.4	55.0	54.6	54.2	53.3	52.8	53.3	52.8	53.3
67.5°	50.6	49.7	48.4	47.5	47.1	46.6	46.6	46.2	46.2	46.2	46.2
70°	44.0	41.7	41.3	40.4	40.4	40.0	40.0	40.0	40.0	39.5	40.4
72.5°	36.4	35.1	34.6	34.2	34.2	34.2	33.7	33.7	33.7	33.3	33.7
75°	29.7	29.3	28.4	28.4	28.0	28.4	28.0	28.0	27.5	28.0	28.0
77.5°	24.0	23.5	23.1	23.1	22.6	22.6	22.6	22.6	22.6	22.6	23.1
80°	18.2	17.8	17.3	17.8	17.3	17.8	17.3	17.3	17.8	17.3	17.3
82.5°	13.3	12.9	12.9	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
85°	8.0	7.5	7.5	8.0	7.5	8.0	7.5	7.5	7.5	8.0	8.0
87.5°	3.6	4.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.0
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: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	673.5	670.4	669.5	670.4	669.5	669.9	666.8	655.3	658.4	653.5	656.2
5°	711.7	709.0	703.2	702.3	701.4	700.6	696.1	685.9	681.9	675.2	674.8
7.5°	748.1	748.1	743.6	740.5	736.5	733.4	727.6	712.5	706.3	698.3	693.9
10°	784.0	772.5	777.4	774.2	764.5	762.7	752.1	743.2	731.2	723.2	716.1
12.5°	809.8	806.2	801.8	799.1	796.4	790.7	783.6	760.9	754.7	738.7	730.7
15°	808.9	806.7	808.0	808.0	807.1	805.8	800.0	783.6	772.9	757.4	743.6
17.5°	765.4	771.1	776.9	780.9	789.8	793.8	799.1	789.3	782.7	769.4	754.7
20°	689.5	703.7	720.5	724.1	732.1	755.6	766.3	774.7	777.4	772.9	760.9
22.5°	583.8	595.8	636.6	635.7	647.3	675.2	706.3	731.6	751.6	762.7	758.3
25°	457.3	474.1	495.9	512.3	550.1	591.8	630.4	670.8	705.4	736.1	743.6
27.5°	345.8	368.0	385.3	407.1	426.2	475.5	525.2	588.2	628.6	686.8	717.0
30°	279.7	289.9	307.2	317.4	326.7	364.5	420.9	483.0	554.0	621.1	673.0
32.5°	238.8	245.9	258.8	263.3	273.0	298.3	333.8	390.7	463.9	545.2	613.5
35°	214.4	222.0	224.6	228.6	236.6	252.6	277.0	318.3	384.5	463.9	545.6
37.5°	193.6	197.6	205.1	207.8	210.4	222.4	238.8	267.7	311.7	376.9	467.5
40°	178.9	181.1	185.1	187.3	189.1	197.6	212.2	231.7	264.1	313.9	397.3
42.5°	163.4	166.0	168.7	171.4	173.6	180.2	189.1	207.8	229.5	267.3	327.6
45°	148.3	150.1	153.2	154.9	158.0	163.4	171.4	184.2	203.8	227.7	276.6
47.5°	134.5	136.7	138.1	140.3	142.5	148.3	155.8	164.3	180.2	203.8	239.3
50°	122.1	124.7	126.5	127.0	128.7	134.1	140.3	149.6	159.8	178.0	209.1
52.5°	113.2	113.7	115.0	116.8	116.3	119.4	125.2	132.3	143.0	157.6	180.2
55°	103.0	104.3	105.2	105.7	105.7	108.3	111.4	118.1	126.5	138.5	157.6
57.5°	90.1	91.5	94.1	95.0	96.3	97.7	99.0	103.4	110.5	122.1	137.6
60°	76.8	77.7	80.4	82.1	83.0	86.6	88.3	91.9	95.9	104.3	119.0
62.5°	61.7	62.6	63.9	65.7	67.5	72.8	77.2	80.8	83.9	89.7	101.7
65°	53.7	54.2	55.0	55.5	55.9	58.2	62.2	67.0	72.8	77.2	84.4
67.5°	46.6	47.1	47.5	48.4	48.8	49.3	51.1	52.4	58.2	64.4	69.7
70°	40.0	40.8	41.3	41.3	41.7	42.6	43.5	45.3	47.1	50.2	56.8
72.5°	33.7	34.2	35.1	35.1	35.1	36.0	36.8	37.7	38.6	40.4	43.1
75°	28.0	28.9	28.9	28.9	29.3	29.3	30.2	31.1	32.0	33.3	34.2
77.5°	23.1	23.1	23.1	23.1	23.5	23.5	24.0	24.9	25.3	25.7	26.6
80°	17.3	17.8	17.8	17.8	18.2	18.2	18.2	19.1	19.5	19.5	20.4
82.5°	12.9	12.9	12.9	13.3	12.9	13.3	13.3	13.8	13.3	13.8	14.2
85°	8.0	8.0	8.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.9
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.0	4.0
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: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	652.2	649.9	649.9	648.6	648.6	641.5	641.5	643.7	641.1	638.0	633.5
5°	669.0	664.1	662.8	661.0	655.3	646.4	642.8	641.5	636.2	629.5	622.0
7.5°	685.0	677.0	673.0	669.0	661.5	649.1	642.0	637.1	629.1	618.9	609.1
10°	700.6	690.3	680.1	675.2	664.6	649.1	638.8	630.9	619.3	605.5	591.8
12.5°	714.8	693.4	691.7	681.9	666.4	648.6	633.1	621.5	606.9	590.9	574.9
15°	727.2	705.4	694.8	685.9	665.5	643.3	626.9	612.6	593.1	574.9	555.4
17.5°	733.4	709.9	702.8	688.1	667.3	638.4	616.2	598.9	577.6	555.8	533.6
20°	739.6	712.1	700.6	690.3	661.9	629.1	604.2	584.2	560.7	535.0	510.5
22.5°	742.7	712.1	698.3	684.1	656.6	618.9	589.6	566.0	538.5	512.3	483.0
25°	737.4	709.4	693.0	678.4	647.3	606.4	572.7	546.1	516.8	487.0	457.3
27.5°	724.1	703.2	684.1	669.0	634.4	590.5	554.9	524.7	494.6	461.3	431.1
30°	699.2	689.9	674.8	657.9	620.2	576.2	534.1	503.0	469.7	436.4	404.9
32.5°	660.6	668.6	658.8	644.2	603.3	556.7	511.9	480.4	443.9	408.0	379.1
35°	613.5	642.0	636.6	626.4	585.6	535.8	491.0	452.8	416.4	380.0	351.2
37.5°	562.0	605.1	609.5	603.3	565.1	514.5	465.3	428.0	390.7	353.8	324.5
40°	491.5	557.6	571.8	574.5	543.8	488.8	437.3	400.9	364.0	328.1	292.6
42.5°	426.6	510.1	527.9	539.0	516.8	463.5	411.5	371.1	334.7	302.3	266.8
45°	365.8	452.8	481.7	495.9	486.1	434.6	380.9	343.2	309.9	280.1	245.9
47.5°	303.2	390.7	431.1	453.7	453.7	405.3	351.6	314.3	282.4	257.0	226.9
50°	261.5	334.3	376.0	405.8	413.8	375.6	325.0	288.6	258.4	230.9	207.8
52.5°	222.9	288.1	322.8	353.8	376.9	343.6	295.2	262.4	232.6	206.9	188.7
55°	192.7	241.5	273.0	307.2	333.0	311.2	266.4	234.4	208.7	187.3	171.8
57.5°	163.8	206.4	232.2	262.4	289.9	273.5	237.5	210.0	187.3	168.7	154.9
60°	139.4	174.0	194.0	217.5	251.7	240.2	210.4	185.1	166.9	150.1	138.5
62.5°	118.5	146.1	162.9	179.8	210.9	205.5	182.5	162.9	147.4	133.2	123.4
65°	97.2	119.9	133.2	147.8	172.7	174.9	156.3	142.5	128.3	115.9	107.0
67.5°	78.6	96.3	108.3	120.8	140.7	146.9	134.1	122.5	110.5	100.3	92.3
70°	63.5	75.9	84.8	94.6	111.0	118.5	111.9	103.9	94.1	85.7	78.6
72.5°	50.2	58.2	63.5	71.0	84.4	91.9	91.5	84.4	77.2	71.5	65.7
75°	36.8	43.1	47.5	52.4	63.0	70.1	71.9	68.8	61.7	57.3	52.8
77.5°	28.0	31.5	33.7	37.3	44.8	51.1	53.7	52.8	47.9	44.4	41.3
80°	21.3	22.2	23.1	24.4	30.6	36.4	38.2	37.7	35.1	33.7	30.2
82.5°	15.1	15.5	16.0	16.4	18.6	23.5	25.3	26.2	24.0	22.6	19.5
85°	8.9	9.3	9.3	10.2	10.7	12.0	15.1	15.1	14.7	12.9	12.4
87.5°	4.4	4.4	4.0	4.0	4.4	4.9	5.8	6.7	5.8	5.3	4.9
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: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	631.7	632.2	633.5	629.5	623.3	620.6	612.6	611.3	610.0	610.0	611.3
5°	617.5	615.8	616.2	608.7	599.8	594.4	583.3	585.1	579.4	575.8	576.7
7.5°	602.0	597.1	596.7	586.9	575.8	566.0	554.5	551.8	546.5	540.3	537.6
10°	582.5	578.9	572.3	561.2	546.9	539.0	523.4	514.1	512.8	503.4	499.9
12.5°	562.5	556.3	549.6	534.1	518.1	505.2	493.7	483.5	476.4	468.4	463.0
15°	539.4	531.9	524.3	507.9	489.2	476.4	459.0	443.9	423.1	406.7	397.3
17.5°	514.1	505.7	495.4	477.2	459.0	441.3	409.3	391.6	376.9	367.1	361.4
20°	487.9	478.6	468.4	450.2	418.6	387.6	369.8	356.0	347.2	337.4	330.3
22.5°	460.4	450.6	439.5	411.1	377.8	356.0	342.3	329.4	316.5	311.2	307.7
25°	434.6	425.7	411.5	372.9	346.7	326.7	311.2	302.8	296.1	289.0	282.4
27.5°	408.0	391.6	371.6	339.2	322.8	302.3	291.2	285.0	273.5	268.6	265.5
30°	376.0	357.8	338.7	315.6	296.6	282.4	272.1	261.9	255.3	250.4	245.1
32.5°	343.6	326.3	314.3	290.3	276.1	261.5	251.7	245.5	235.7	232.6	230.4
35°	315.6	301.0	290.3	270.8	257.5	244.2	237.1	227.7	221.5	215.8	212.2
37.5°	288.1	280.1	269.0	252.6	238.4	227.7	218.0	214.9	206.4	203.3	199.8
40°	269.0	257.0	247.7	233.5	221.5	210.0	203.8	196.7	190.9	186.0	184.7
42.5°	245.9	237.1	231.7	216.2	203.8	197.1	189.6	181.6	177.1	173.1	168.3
45°	228.6	220.6	213.1	200.7	189.6	181.1	174.5	169.1	161.6	159.8	152.3
47.5°	210.4	202.4	196.7	184.2	174.0	166.0	161.2	154.1	147.8	143.8	140.3
50°	192.2	185.6	180.2	169.6	160.7	152.3	145.6	138.5	135.8	129.2	127.0
52.5°	174.9	170.5	164.7	154.5	145.6	138.5	131.4	125.6	121.6	118.1	115.4
55°	160.3	153.2	150.5	139.4	131.9	124.3	118.1	114.5	109.7	107.4	105.2
57.5°	143.8	139.8	135.4	127.0	118.5	111.4	107.0	101.7	99.0	96.3	94.6
60°	129.6	123.9	120.3	113.2	105.7	99.0	95.0	91.0	87.5	85.2	81.7
62.5°	113.2	108.8	106.5	99.0	92.8	86.6	83.0	79.0	76.4	72.4	67.9
65°	99.0	95.4	92.8	86.6	80.8	75.0	71.5	66.6	63.0	60.8	60.4
67.5°	86.6	83.9	79.9	74.1	68.4	63.9	59.9	55.9	55.5	54.6	54.6
70°	72.8	70.1	67.9	61.7	56.8	51.9	51.1	49.7	48.4	47.9	47.1
72.5°	60.8	58.6	55.9	50.6	45.7	44.4	43.5	42.6	41.3	40.8	40.4
75°	49.3	46.2	44.4	39.5	38.2	37.3	36.4	35.1	34.2	33.7	32.9
77.5°	37.7	34.6	34.6	32.0	31.1	29.7	28.9	28.0	27.5	26.6	26.6
80°	26.6	26.6	25.7	24.4	23.1	22.6	21.3	20.9	20.4	20.9	20.0
82.5°	19.5	17.8	17.8	16.9	16.0	15.5	14.7	14.7	14.2	14.2	14.2
85°	11.1	11.1	10.7	9.8	9.3	9.3	8.9	8.9	8.4	8.4	8.0
87.5°	4.4	4.0	4.4	4.0	4.0	3.6	3.6	3.6	3.1	3.6	3.1
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: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	611.3	610.4	607.8	608.7	607.3	607.3	606.4	606.4	606.4	608.7	607.3
5°	578.0	574.9	571.8	570.5	569.1	567.8	567.8	567.4	571.4	570.5	574.0
7.5°	536.7	535.8	529.6	529.6	527.4	526.5	528.7	529.2	529.6	530.5	532.7
10°	499.9	497.7	488.8	489.7	488.3	486.6	487.9	487.0	490.1	491.0	490.1
12.5°	456.4	452.4	442.6	437.7	432.4	428.4	433.3	429.7	442.2	445.7	455.5
15°	398.7	391.1	384.5	384.5	379.6	376.0	378.2	382.2	384.9	388.9	390.7
17.5°	360.0	356.9	351.6	348.5	347.2	345.8	345.8	347.6	353.4	352.9	356.5
20°	327.2	325.4	322.8	318.8	317.4	316.5	316.5	316.5	320.5	324.1	326.3
22.5°	304.5	303.2	301.4	296.1	293.5	292.6	294.8	296.1	299.2	301.9	304.1
25°	281.9	278.8	275.7	273.9	272.6	272.6	273.5	273.9	275.2	276.6	279.2
27.5°	263.3	261.0	256.6	251.7	251.7	250.4	251.3	252.2	255.3	259.7	261.9
30°	242.4	242.0	240.2	238.4	236.6	235.7	237.5	238.8	239.3	241.5	241.5
32.5°	227.3	224.2	221.1	219.3	218.4	218.0	218.4	220.2	220.2	222.9	226.0
35°	212.2	210.4	207.3	204.2	203.3	201.1	202.9	204.7	207.8	209.1	210.4
37.5°	195.8	193.6	192.2	191.3	189.6	190.0	188.7	191.3	194.0	193.6	194.4
40°	183.4	179.4	175.4	174.9	174.5	174.0	174.0	174.5	176.2	178.0	180.7
42.5°	167.4	166.0	162.5	158.9	158.0	157.2	156.3	158.0	161.6	164.7	166.0
45°	150.9	149.2	148.3	145.6	143.8	143.4	142.5	144.7	147.8	149.2	150.1
47.5°	135.8	135.4	132.7	133.2	131.9	132.3	131.9	133.2	133.2	134.5	135.4
50°	125.6	124.3	123.0	122.1	120.8	120.8	120.3	120.8	122.5	124.3	123.9
52.5°	115.4	113.2	112.8	112.3	111.4	112.3	111.0	111.4	113.2	114.1	113.7
55°	103.4	103.0	102.1	101.2	100.8	100.3	100.3	100.3	102.1	103.4	103.9
57.5°	94.1	91.9	90.1	90.1	88.3	87.9	88.8	89.2	90.6	91.5	92.3
60°	81.2	80.4	77.7	76.4	73.7	73.3	73.3	75.0	77.2	80.4	81.2
62.5°	67.5	66.1	65.7	65.7	65.7	65.7	65.7	65.7	65.7	66.1	66.1
65°	59.9	60.4	59.9	59.5	59.9	59.9	59.5	59.5	59.5	59.9	60.4
67.5°	53.7	53.3	53.7	53.3	52.8	52.8	52.4	52.8	53.3	53.7	53.7
70°	46.6	46.6	46.2	46.6	46.2	45.7	45.3	45.3	46.2	46.6	46.6
72.5°	40.0	40.0	39.5	39.5	38.6	38.6	39.1	38.6	38.6	40.0	40.0
75°	33.3	32.9	32.4	32.4	32.0	32.0	32.0	31.5	32.4	32.4	32.9
77.5°	26.2	26.2	26.2	25.7	25.7	25.3	25.3	25.7	25.7	25.7	26.2
80°	20.0	20.0	20.0	19.5	19.1	19.1	19.1	19.1	19.1	19.5	19.1
82.5°	13.8	13.8	13.8	13.8	13.8	13.3	13.3	13.3	13.8	13.8	13.3
85°	8.4	8.0	8.4	8.4	8.0	8.4	8.0	8.0	7.5	7.5	8.0
87.5°	3.6	3.1	2.7	2.7	3.1	2.7	2.7	2.7	3.1	2.7	2.7
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: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	608.7	610.9	610.0	605.1	610.0	611.3	614.0	616.6	618.4	621.1	623.3
5°	570.5	574.9	577.6	574.9	583.8	585.1	591.3	594.9	600.2	604.7	608.2
7.5°	534.5	538.1	543.4	544.3	549.6	555.8	564.7	573.6	582.0	586.5	590.5
10°	495.9	502.1	510.1	508.3	516.3	526.1	535.4	549.6	556.7	564.7	571.8
12.5°	457.3	461.3	471.9	475.5	487.0	494.6	507.4	516.3	534.1	543.4	549.6
15°	389.8	406.2	419.5	435.5	450.6	464.8	476.4	492.3	507.9	515.0	525.2
17.5°	359.2	366.7	374.7	382.7	402.2	427.5	447.9	465.3	478.6	487.9	499.9
20°	327.2	334.7	343.6	351.2	363.2	381.4	406.7	436.4	452.4	462.2	473.7
22.5°	304.5	311.7	317.4	324.1	333.4	346.7	365.8	402.7	424.0	436.0	446.2
25°	280.1	289.0	295.2	300.1	307.7	322.3	337.8	358.7	396.9	406.2	420.4
27.5°	263.3	265.9	273.0	280.6	288.1	296.1	312.1	329.9	355.6	376.0	393.3
30°	243.3	249.9	256.6	259.7	266.4	277.9	287.7	306.8	326.7	342.7	363.6
32.5°	228.2	232.2	236.6	244.2	250.4	258.4	268.1	284.1	301.0	311.2	327.2
35°	211.3	214.0	223.3	226.4	232.6	240.6	250.4	262.8	281.0	289.0	300.6
37.5°	195.3	201.6	204.2	211.3	217.1	225.1	232.2	246.4	258.4	267.7	278.4
40°	182.9	185.6	190.5	196.7	201.6	207.8	216.6	226.9	239.7	247.3	256.6
42.5°	167.8	170.0	176.2	179.8	187.8	193.6	198.9	211.3	222.9	228.6	238.0
45°	151.4	156.7	160.7	167.8	172.3	179.4	186.0	194.9	205.5	212.2	217.5
47.5°	137.2	142.5	146.5	153.2	160.3	163.4	170.5	179.8	189.6	194.9	202.4
50°	125.6	127.4	135.0	138.1	145.6	151.8	156.7	164.7	175.4	178.5	184.7
52.5°	114.5	115.9	120.8	124.7	131.4	136.7	143.0	150.5	159.4	164.3	169.1
55°	104.8	105.7	107.9	112.3	116.8	123.4	129.2	136.3	143.8	149.2	153.6
57.5°	93.7	95.4	97.2	99.9	104.3	110.5	116.8	123.4	129.6	133.2	139.0
60°	80.8	83.5	86.6	89.7	92.8	97.2	104.3	110.5	116.3	119.4	123.9
62.5°	67.0	72.4	75.0	78.6	81.2	85.2	90.6	97.7	101.7	105.7	109.2
65°	60.4	60.8	61.3	64.8	69.7	73.7	78.6	83.9	90.1	92.8	95.4
67.5°	53.7	54.2	55.0	55.5	57.3	61.7	67.0	72.8	77.7	79.5	82.1
70°	47.1	47.1	48.8	49.3	49.7	50.2	54.6	60.4	64.8	67.0	70.1
72.5°	40.0	40.4	41.3	41.7	42.6	43.5	44.8	47.9	53.3	55.5	59.0
75°	32.9	33.3	33.7	34.2	35.5	36.0	37.3	39.1	41.3	44.0	46.2
77.5°	26.2	26.2	26.6	27.5	28.4	28.9	30.2	31.1	32.0	33.3	35.1
80°	19.5	20.0	20.0	20.9	20.9	21.3	21.8	23.1	24.0	24.9	25.7
82.5°	13.3	14.2	14.2	14.2	14.7	15.1	15.5	15.5	16.4	16.9	18.2
85°	8.0	8.4	8.4	8.4	8.0	8.9	8.9	9.3	9.3	9.3	9.8
87.5°	3.1	2.7	3.1	3.1	3.1	3.6	3.1	3.1	3.6	4.0	4.0
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: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	638.8	638.8	638.8	638.8
2.5°	627.3	626.0	634.0	642.8
5°	614.4	616.6	626.9	639.3
7.5°	601.1	606.0	618.0	634.4
10°	582.5	591.3	609.5	626.4
12.5°	564.3	576.2	593.6	613.5
15°	543.8	557.2	578.5	602.4
17.5°	521.2	536.3	561.2	587.3
20°	497.2	517.2	543.4	571.8
22.5°	470.6	494.6	521.6	553.2
25°	444.8	471.0	498.1	534.5
27.5°	419.5	445.3	475.5	512.3
30°	394.2	417.8	450.2	489.7
32.5°	367.1	391.6	425.7	466.1
35°	342.3	366.7	398.7	438.6
37.5°	315.6	341.8	372.5	413.8
40°	284.6	315.2	344.9	384.5
42.5°	258.8	291.2	320.1	357.4
45°	238.4	269.0	293.0	329.4
47.5°	219.3	244.2	268.6	302.3
50°	201.1	220.2	245.5	275.7
52.5°	182.5	198.9	220.6	249.1
55°	165.6	181.1	200.7	222.4
57.5°	150.1	161.2	180.7	200.2
60°	132.7	144.3	159.4	175.8
62.5°	118.1	127.0	141.2	154.9
65°	102.6	111.0	121.6	134.5
67.5°	88.3	95.9	104.3	114.5
70°	75.5	81.2	87.5	96.3
72.5°	61.7	67.9	73.7	80.8
75°	50.6	53.3	58.2	63.0
77.5°	39.1	42.6	45.3	49.3
80°	28.0	31.1	32.0	35.1
82.5°	18.6	20.4	22.2	23.1
85°	10.7	11.5	13.3	13.8
87.5°	4.0	4.4	5.3	6.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P997718

CATALOG NUMBER: SA2XXRDP-B290DB35-4F0-XX-W2A-A

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	19.07	20.53	19.44	20.84	21.15	13.49	14.94	13.85	15.26	15.57
	3H	20.40	21.70	20.78	22.03	22.39	14.62	15.92	15.00	16.25	16.61
	4H	20.83	22.05	21.23	22.40	22.78	15.08	16.29	15.48	16.64	17.02
	6H	21.10	22.23	21.52	22.59	22.99	15.45	16.58	15.87	16.94	17.34
	8H	21.18	22.24	21.60	22.63	23.04	15.58	16.65	16.01	17.04	17.44
	12H	21.22	22.24	21.65	22.62	23.05	15.66	16.68	16.09	17.06	17.49
4H	2H	19.05	20.27	19.45	20.62	21.00	14.17	15.39	14.57	15.74	16.12
	3H	20.50	21.50	20.91	21.90	22.31	15.47	16.47	15.88	16.87	17.27
	4H	21.00	21.90	21.43	22.32	22.76	16.02	16.93	16.46	17.34	17.78
	6H	21.38	22.16	21.84	22.61	23.07	16.50	17.29	16.96	17.73	18.19
	8H	21.49	22.22	21.95	22.67	23.13	16.67	17.40	17.13	17.84	18.31
	12H	21.56	22.22	22.05	22.70	23.17	16.79	17.44	17.27	17.92	18.39
8H	4H	20.99	21.72	21.45	22.17	22.64	16.34	17.07	16.81	17.52	17.99
	6H	21.41	22.01	21.91	22.50	22.98	16.93	17.53	17.42	18.02	18.50
	8H	21.55	22.09	22.07	22.60	23.09	17.16	17.70	17.67	18.21	18.70
	12H	21.67	22.14	22.18	22.64	23.20	17.34	17.82	17.86	18.32	18.88
12H	4H	20.97	21.62	21.45	22.10	22.57	16.38	17.03	16.86	17.51	17.98
	6H	21.38	21.92	21.90	22.44	22.92	16.98	17.53	17.50	18.04	18.53
	8H	21.56	22.04	22.07	22.53	23.10	17.27	17.75	17.78	18.24	18.81

END OF REPORT