

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P238334

Luminaire Tested: **PRS615D010-S6M12-61SWWC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SWWC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 977.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.94 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

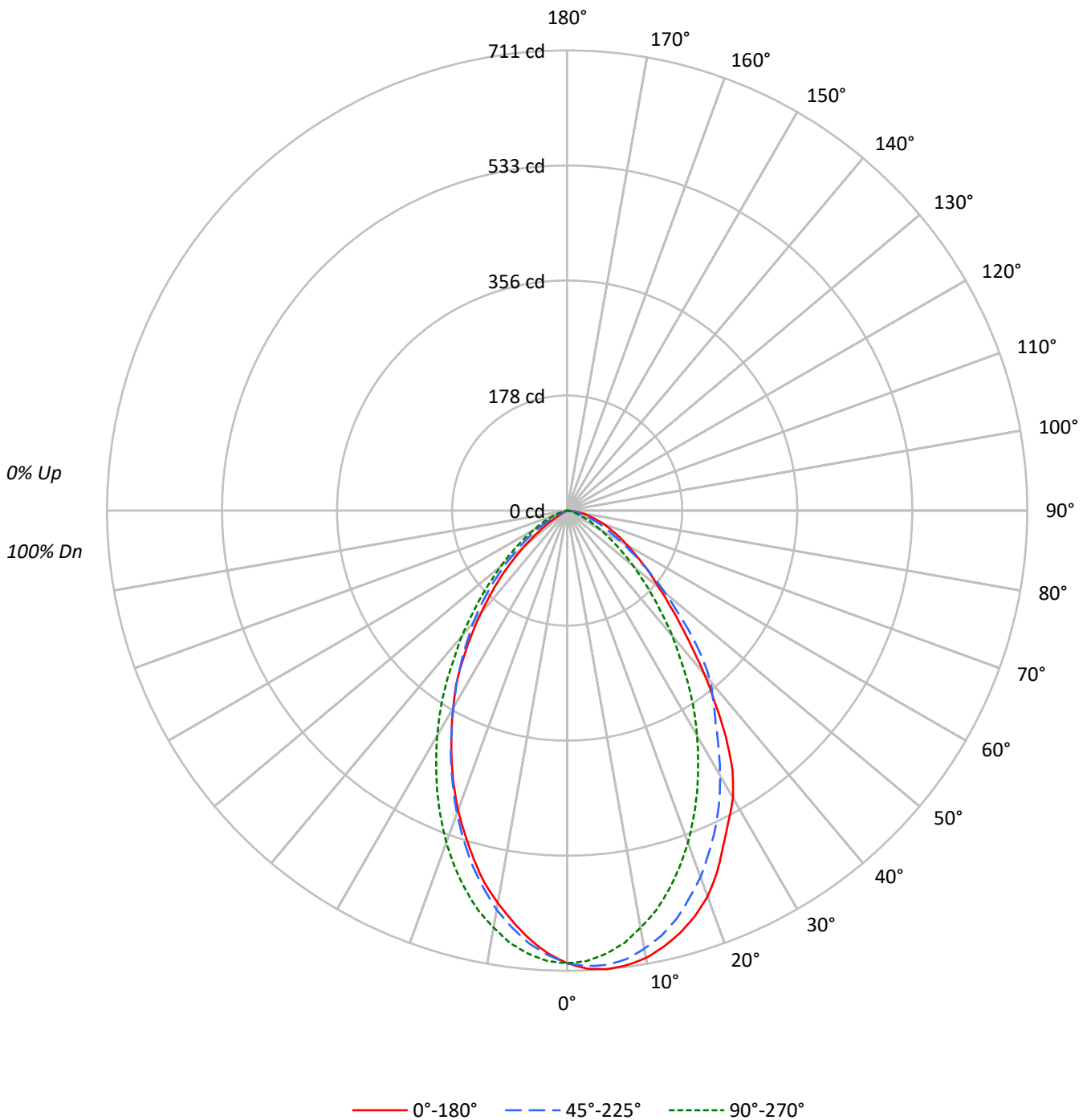
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238334

CATALOG NUMBER: PRS615D010-S6M12-61SWWC-4000K

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58					58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30109	30109	30109
5°	30738	29710	28733
10°	30687	28602	26923
15°	30106	27039	24855
20°	29067	24999	22575
25°	27117	22589	20072
30°	25480	19951	17515
35°	22486	17124	14759
40°	18536	14220	11685
45°	14997	11368	8793
50°	12419	8962	5854
55°	10637	6861	3183
60°	9240	5132	913
65°	8232	3780	0
70°	7503	2505	0
75°	6388	1547	0
80°	5579	992	0
85°	3903	642	0



TEST NUMBER: P238334

CATALOG NUMBER: PRS615D010-S6M12-61SWWC-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	6.6
10°-20°	170.9	17.5
20°-30°	222.0	22.7
30°-40°	213.4	21.8
40°-50°	157.0	16.1
50°-60°	90.1	9.2
60°-70°	40.8	4.2
70°-80°	15.2	1.6
80°-90°	2.9	0.3
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°	457.5	46.8
0°-40°	670.9	68.7
0°-60°	918.0	94.0
0°-90°	977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	699	699	699	699	699	
5°	711	705	687	672	665	68
15°	675	653	607	567	558	190
25°	571	542	476	425	422	263
35°	428	400	326	285	281	265
45°	246	270	187	167	144	192
55°	142	139	91	74	42	128
65°	81	65	37	16	0	81
75°	38	26	9	0	0	42
85°	8	4	1	0	0	10
90°	0	0	0	0	0	



TEST NUMBER: P238334

CATALOG NUMBER: PRS615D010-S6M12-61SWWC-4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	708.5	708.5	708.5	707.2	707.2	708.5	707.2	707.2	705.9	705.9	704.6
5°	711.2	711.2	711.2	711.2	709.9	709.9	709.9	708.5	707.2	705.9	704.6
7.5°	708.5	708.5	708.5	708.5	707.2	707.2	705.9	704.6	703.2	700.6	699.3
10°	701.9	701.9	701.9	700.6	699.3	698.0	698.0	695.3	692.7	690.0	687.4
12.5°	690.0	690.0	688.7	688.7	686.0	686.0	684.7	682.1	679.4	676.8	672.8
15°	675.4	674.1	674.1	672.8	670.1	668.8	667.5	663.5	659.5	655.6	652.9
17.5°	656.9	655.6	654.2	652.9	648.9	646.3	645.0	641.0	637.0	633.1	627.8
20°	634.4	633.1	631.7	629.1	626.4	623.8	621.1	617.2	611.9	606.6	602.6
22.5°	605.2	603.9	602.6	601.3	597.3	594.6	593.3	589.4	584.1	578.8	572.1
25°	570.8	570.8	572.1	568.2	565.5	562.9	562.9	558.9	553.6	547.0	541.7
27.5°	540.3	540.3	537.7	535.1	531.1	528.4	527.1	523.1	520.5	515.2	508.6
30°	512.5	511.2	508.6	505.9	501.9	498.0	494.0	488.7	483.4	478.1	472.8
32.5°	475.5	474.1	474.1	474.1	470.2	468.8	466.2	459.6	452.9	443.7	435.7
35°	427.8	426.5	425.1	426.5	429.1	430.4	431.8	429.1	422.5	411.9	400.0
37.5°	376.1	377.5	378.8	380.1	384.1	386.7	385.4	390.7	389.4	382.7	370.8
40°	329.8	329.8	331.1	335.1	339.0	340.4	341.7	347.0	347.0	348.3	344.3
42.5°	283.4	287.4	288.7	291.4	295.3	298.0	300.6	305.9	307.3	312.6	309.9
45°	246.3	249.0	251.6	254.3	258.3	260.9	262.2	266.2	270.2	272.8	270.2
47.5°	213.2	214.6	215.9	218.5	222.5	223.8	226.5	230.4	234.4	233.1	230.4
50°	185.4	186.7	186.7	190.7	193.4	194.7	194.7	200.0	200.0	200.0	197.3
52.5°	162.9	162.9	164.2	165.5	168.2	168.2	170.8	173.5	170.8	169.5	166.9
55°	141.7	141.7	143.0	144.4	144.4	145.7	147.0	147.0	144.4	141.7	139.1
57.5°	123.2	124.5	124.5	125.8	127.1	125.8	127.1	124.5	121.8	119.2	115.2
60°	107.3	108.6	108.6	109.9	109.9	109.9	108.6	106.0	102.0	99.3	95.4
62.5°	94.0	94.0	94.0	94.0	94.0	94.0	92.7	90.1	86.1	83.4	79.5
65°	80.8	80.8	80.8	80.8	79.5	79.5	78.1	75.5	71.5	68.9	64.9
67.5°	68.9	68.9	68.9	68.9	67.5	66.2	64.9	63.6	59.6	56.9	54.3
70°	59.6	58.3	58.3	56.9	55.6	54.3	54.3	51.7	49.0	46.4	43.7
72.5°	47.7	47.7	47.7	47.7	45.0	45.0	43.7	41.1	38.4	37.1	34.4
75°	38.4	38.4	38.4	37.1	35.8	35.8	34.4	33.1	30.5	29.1	26.5
77.5°	30.5	30.5	30.5	29.1	27.8	26.5	26.5	25.2	22.5	21.2	19.9
80°	22.5	22.5	21.2	19.9	19.9	18.5	18.5	17.2	15.9	14.6	13.2
82.5°	14.6	14.6	14.6	13.2	13.2	11.9	11.9	11.9	10.6	9.3	7.9
85°	7.9	7.9	7.9	6.6	6.6	6.6	6.6	6.6	5.3	5.3	4.0
87.5°	1.3	1.3	1.3	1.3	1.3	2.6	1.3	1.3	1.3	1.3	1.3
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: P238334

CATALOG NUMBER: PRS615D010-S6M12-61SWWC-4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	704.6	703.2	701.9	701.9	700.6	700.6	699.3	698.0	696.6	696.6	695.3
5°	703.2	701.9	699.3	698.0	696.6	695.3	694.0	691.3	690.0	687.4	686.0
7.5°	696.6	694.0	691.3	688.7	687.4	686.0	682.1	679.4	676.8	674.1	671.5
10°	684.7	682.1	678.1	675.4	672.8	670.1	667.5	662.2	658.2	654.2	650.3
12.5°	668.8	664.8	660.9	655.6	654.2	651.6	647.6	642.3	638.4	633.1	627.8
15°	648.9	642.3	639.7	633.1	630.4	627.8	623.8	618.5	613.2	606.6	601.3
17.5°	622.5	615.8	613.2	606.6	603.9	601.3	594.6	589.4	584.1	577.4	570.8
20°	596.0	590.7	584.1	577.4	574.8	572.1	564.2	558.9	553.6	545.6	540.3
22.5°	565.5	558.9	552.3	547.0	543.0	540.3	533.7	527.1	519.2	511.2	504.6
25°	535.1	527.1	520.5	513.9	508.6	505.9	498.0	490.0	482.1	475.5	467.5
27.5°	500.6	494.0	486.1	476.8	472.8	468.8	460.9	451.6	445.0	438.4	430.4
30°	464.9	458.2	449.0	441.0	437.0	433.1	425.1	417.2	410.6	401.3	393.3
32.5°	429.1	422.5	414.5	406.6	403.9	398.6	389.4	382.7	373.5	364.2	357.6
35°	394.7	389.4	381.4	372.2	365.5	360.2	351.0	340.4	332.4	325.8	319.2
37.5°	362.9	354.9	344.3	332.4	325.8	320.5	308.6	300.6	294.0	286.1	283.4
40°	329.8	316.5	304.6	292.7	287.4	280.8	271.5	263.6	258.3	253.0	246.3
42.5°	298.0	280.8	267.5	256.9	250.3	246.3	235.7	230.4	223.8	217.2	214.6
45°	262.2	249.0	233.1	222.5	217.2	213.2	204.0	197.3	190.7	186.7	182.8
47.5°	226.5	215.9	201.3	189.4	185.4	181.4	174.8	166.9	161.6	157.6	153.6
50°	190.7	182.8	174.8	161.6	157.6	156.3	148.3	141.7	136.4	133.8	129.8
52.5°	161.6	155.0	147.0	137.7	133.8	129.8	124.5	117.9	115.2	111.2	108.6
55°	133.8	127.1	123.2	116.5	111.2	108.6	103.3	99.3	95.4	91.4	88.7
57.5°	109.9	106.0	102.0	96.7	94.0	91.4	86.1	82.1	78.1	74.2	71.5
60°	91.4	87.4	83.4	79.5	76.8	75.5	70.2	66.2	62.2	59.6	56.9
62.5°	75.5	72.8	68.9	64.9	62.2	60.9	56.9	53.0	49.0	47.7	45.0
65°	62.2	59.6	55.6	51.7	51.7	49.0	45.0	42.4	39.7	37.1	34.4
67.5°	51.7	47.7	45.0	42.4	39.7	38.4	35.8	33.1	30.5	27.8	26.5
70°	41.1	38.4	35.8	31.8	30.5	29.1	26.5	23.8	22.5	19.9	18.5
72.5°	31.8	29.1	26.5	23.8	22.5	21.2	19.9	17.2	15.9	14.6	13.2
75°	25.2	22.5	19.9	17.2	17.2	15.9	14.6	11.9	10.6	9.3	9.3
77.5°	17.2	15.9	14.6	11.9	11.9	10.6	9.3	7.9	7.9	6.6	5.3
80°	11.9	10.6	9.3	7.9	6.6	6.6	5.3	5.3	4.0	4.0	2.6
82.5°	7.9	6.6	5.3	4.0	4.0	4.0	2.6	2.6	2.6	1.3	1.3
85°	4.0	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: P238334

CATALOG NUMBER: PRS615D010-S6M12-61SWWC-4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	694.0	692.7	691.3	691.3	691.3	690.0	688.7	687.4	687.4	686.0	686.0
5°	683.4	680.7	679.4	678.1	678.1	675.4	674.1	672.8	671.5	670.1	668.8
7.5°	667.5	664.8	662.2	659.5	659.5	656.9	654.2	652.9	650.3	648.9	647.6
10°	647.6	645.0	641.0	638.4	635.7	634.4	630.4	627.8	626.4	622.5	621.1
12.5°	622.5	618.5	614.5	611.9	610.5	606.6	602.6	601.3	597.3	594.6	593.3
15°	596.0	590.7	585.4	584.1	581.4	577.4	573.5	569.5	566.8	562.9	562.9
17.5°	565.5	558.9	554.9	550.9	549.6	544.3	539.0	536.4	532.4	529.8	528.4
20°	532.4	525.8	520.5	517.8	513.9	509.9	504.6	501.9	498.0	495.3	494.0
22.5°	496.6	488.7	483.4	480.8	478.1	471.5	467.5	464.9	460.9	458.2	456.9
25°	459.6	454.3	447.6	443.7	441.0	434.4	430.4	427.8	425.1	422.5	421.2
27.5°	422.5	414.5	407.9	405.3	402.6	398.6	392.0	388.0	386.7	385.4	384.1
30°	385.4	378.8	372.2	368.2	364.2	360.2	356.3	352.3	351.0	348.3	345.7
32.5°	351.0	344.3	337.7	335.1	332.4	325.8	321.8	319.2	317.9	312.6	311.2
35°	315.2	309.9	305.9	303.3	302.0	296.7	294.0	287.4	284.7	282.1	280.8
37.5°	278.1	272.8	268.9	268.9	266.2	263.6	260.9	258.3	253.0	251.6	250.3
40°	242.4	238.4	235.7	233.1	233.1	231.8	229.1	229.1	225.1	222.5	218.5
42.5°	209.3	206.6	204.0	204.0	202.6	201.3	198.7	198.7	196.0	193.4	189.4
45°	178.8	174.8	173.5	173.5	172.2	170.8	169.5	169.5	166.9	164.2	161.6
47.5°	151.0	148.3	147.0	145.7	144.4	144.4	143.0	141.7	140.4	137.7	135.1
50°	127.1	124.5	123.2	121.8	121.8	120.5	119.2	116.5	116.5	112.6	109.9
52.5°	106.0	104.6	102.0	100.7	99.3	98.0	96.7	95.4	92.7	90.1	88.7
55°	86.1	83.4	82.1	80.8	79.5	78.1	76.8	75.5	74.2	70.2	67.5
57.5°	68.9	66.2	64.9	64.9	63.6	60.9	59.6	58.3	55.6	53.0	49.0
60°	54.3	53.0	50.3	50.3	49.0	46.4	45.0	42.4	39.7	35.8	33.1
62.5°	42.4	41.1	38.4	37.1	37.1	34.4	31.8	29.1	26.5	23.8	19.9
65°	31.8	30.5	29.1	27.8	26.5	23.8	21.2	18.5	15.9	11.9	7.9
67.5°	23.8	22.5	19.9	19.9	18.5	15.9	13.2	10.6	6.6	4.0	1.3
70°	17.2	15.9	13.2	11.9	11.9	9.3	6.6	4.0	0.0	0.0	0.0
72.5°	11.9	10.6	7.9	6.6	6.6	4.0	1.3	0.0	0.0	0.0	0.0
75°	7.9	6.6	4.0	4.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
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: P238334

CATALOG NUMBER: PRS615D010-S6M12-61SWWC-4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	699.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
2.5°	686.0	684.7	684.7	684.7	683.4	684.7	684.7	684.7
5°	667.5	667.5	666.2	666.2	666.2	664.8	664.8	664.8
7.5°	645.0	645.0	643.7	643.7	643.7	642.3	641.0	641.0
10°	619.8	619.8	618.5	618.5	618.5	617.2	615.8	615.8
12.5°	590.7	590.7	590.7	589.4	589.4	589.4	588.0	589.4
15°	561.5	560.2	560.2	558.9	557.6	557.6	557.6	557.6
17.5°	527.1	525.8	525.8	524.5	525.8	524.5	524.5	524.5
20°	491.3	491.3	491.3	491.3	491.3	491.3	492.7	492.7
22.5°	456.9	455.6	456.9	455.6	455.6	456.9	456.9	458.2
25°	421.2	419.8	419.8	421.2	421.2	421.2	422.5	422.5
27.5°	381.4	384.1	384.1	385.4	385.4	386.7	388.0	386.7
30°	347.0	347.0	347.0	348.3	349.6	351.0	352.3	352.3
32.5°	309.9	311.2	312.6	311.2	312.6	315.2	317.9	319.2
35°	279.4	276.8	275.5	275.5	276.8	278.1	279.4	280.8
37.5°	246.3	245.0	243.7	241.0	242.4	243.7	243.7	243.7
40°	215.9	213.2	211.9	210.6	209.3	207.9	207.9	207.9
42.5°	186.7	184.1	181.4	181.4	177.5	176.1	176.1	174.8
45°	158.9	156.3	153.6	153.6	149.7	145.7	144.4	144.4
47.5°	132.4	128.5	127.1	125.8	121.8	117.9	115.2	113.9
50°	107.3	103.3	102.0	100.7	96.7	91.4	88.7	87.4
52.5°	84.8	80.8	78.1	76.8	71.5	67.5	64.9	63.6
55°	63.6	60.9	58.3	56.9	51.7	46.4	42.4	42.4
57.5°	46.4	41.1	39.7	38.4	33.1	29.1	25.2	23.8
60°	30.5	25.2	23.8	22.5	17.2	13.2	11.9	10.6
62.5°	15.9	11.9	10.6	9.3	6.6	4.0	2.6	2.6
65°	5.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)