

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: P238364

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-27)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-61SWWMW-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 975.7 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.04 / 1.14  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

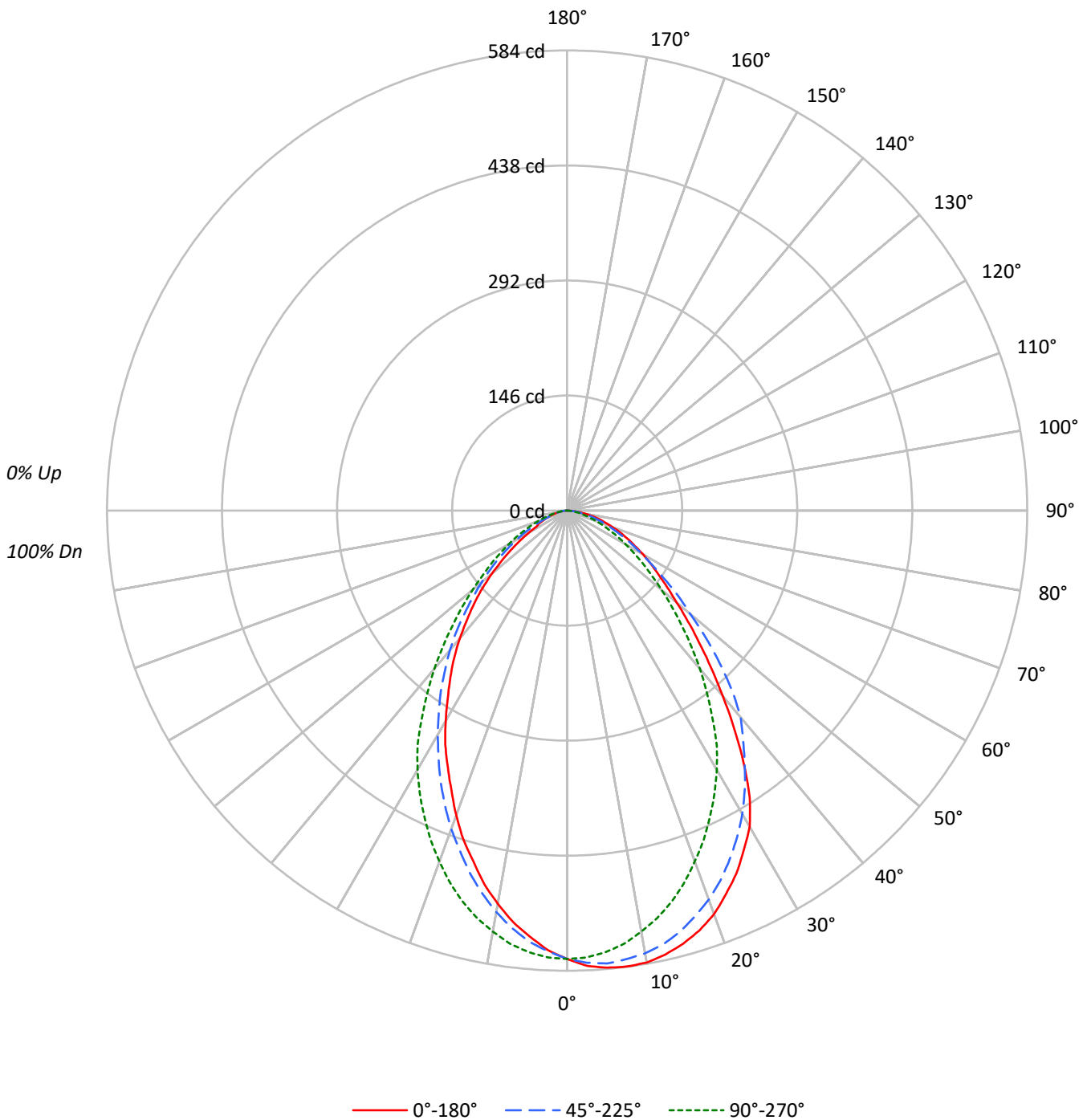
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P238364

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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	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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68					68			
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53					53			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48					48			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43					43			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39					39			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	24499	24499	24499
5°	25167	24307	23451
10°	25458	23722	22157
15°	25363	22889	20527
20°	24980	21709	18859
25°	24143	20371	17036
30°	23029	18882	15328
35°	20520	16904	13566
40°	17255	14726	11899
45°	14425	12489	10150
50°	12144	10463	8333
55°	10629	8843	6553
60°	9576	7406	4788
65°	8629	6072	4045
70°	7666	4998	3500
75°	7037	3959	3078
80°	5901	2951	2628
85°	4594	1976	1976



TEST NUMBER: P238364

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	5.4
10°-20°	144.5	14.8
20°-30°	198.5	20.3
30°-40°	205.7	21.1
40°-50°	165.9	17.0
50°-60°	110.2	11.3
60°-70°	62.2	6.4
70°-80°	28.6	2.9
80°-90°	6.9	0.7
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°	396.1	40.6
0°-40°	601.8	61.7
0°-60°	877.9	90.0
0°-90°	975.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	975.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	569	569	569	569	569	
5°	582	577	562	549	543	56
15°	569	553	514	476	460	160
25°	508	488	429	380	359	233
35°	390	393	322	279	258	242
45°	237	274	205	184	167	184
55°	142	150	118	106	87	128
65°	85	78	60	48	40	84
75°	42	34	24	17	18	45
85°	9	7	4	5	4	11
90°	0	0	0	0	0	



TEST NUMBER: P238364

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
2.5°	578.3	577.0	577.0	577.0	577.0	577.0	577.0	577.0	575.7	575.7	574.3
5°	582.3	582.3	582.3	582.3	581.0	581.0	581.0	579.6	578.3	577.0	577.0
7.5°	583.6	583.6	583.6	582.3	582.3	582.3	581.0	579.6	578.3	577.0	574.3
10°	582.3	582.3	581.0	581.0	579.6	578.3	578.3	577.0	575.7	573.0	570.4
12.5°	577.0	577.0	577.0	575.7	574.3	574.3	573.0	570.4	569.0	566.4	563.8
15°	569.0	569.0	569.0	567.7	566.4	565.1	565.1	562.4	559.8	557.1	553.2
17.5°	558.5	558.5	558.5	557.1	554.5	554.5	553.2	550.5	547.9	545.2	539.9
20°	545.2	543.9	543.9	542.6	539.9	539.9	538.6	536.0	533.3	529.3	525.4
22.5°	526.7	528.0	526.7	525.4	524.0	522.7	521.4	518.8	516.1	512.1	508.2
25°	508.2	506.8	506.8	506.8	505.5	502.9	501.6	500.2	496.3	492.3	488.3
27.5°	485.7	483.0	483.0	484.3	483.0	481.7	480.4	477.7	475.1	471.1	467.1
30°	463.2	461.9	461.9	460.5	457.9	456.6	456.6	453.9	452.6	448.6	444.6
32.5°	431.4	432.7	434.1	435.4	434.1	434.1	434.1	430.1	426.1	423.5	419.5
35°	390.4	391.7	394.4	397.0	402.3	403.6	404.9	406.3	402.3	398.3	393.0
37.5°	348.0	350.7	352.0	356.0	360.0	363.9	365.2	370.5	374.5	373.2	366.6
40°	307.0	308.3	312.3	313.6	320.3	324.2	326.9	332.2	340.1	342.7	342.7
42.5°	270.0	271.3	272.6	276.6	281.9	287.2	288.5	293.8	303.0	307.0	309.7
45°	236.9	238.2	240.9	242.2	247.5	250.1	252.8	260.7	266.0	272.6	273.9
47.5°	207.8	207.8	209.1	213.1	217.0	219.7	221.0	227.6	232.9	236.9	238.2
50°	181.3	182.6	183.9	185.3	187.9	190.6	193.2	198.5	202.5	205.1	203.8
52.5°	160.1	161.4	161.4	162.8	165.4	168.1	169.4	172.0	174.7	176.0	177.3
55°	141.6	141.6	142.9	144.2	145.6	146.9	146.9	149.5	149.5	150.9	149.5
57.5°	125.7	125.7	125.7	127.0	127.0	128.4	128.4	128.4	128.4	128.4	127.0
60°	111.2	109.8	111.2	111.2	112.5	112.5	112.5	111.2	109.8	109.8	108.5
62.5°	96.6	96.6	96.6	97.9	97.9	96.6	96.6	96.6	94.0	94.0	92.6
65°	84.7	83.4	84.7	84.7	84.7	83.4	83.4	82.0	80.7	79.4	78.1
67.5°	72.8	72.8	72.8	72.8	71.5	71.5	71.5	68.8	67.5	66.2	64.8
70°	60.9	62.2	60.9	60.9	60.9	59.6	59.6	58.2	56.9	55.6	54.3
72.5°	51.6	51.6	51.6	50.3	50.3	49.0	49.0	47.6	46.3	45.0	43.7
75°	42.3	42.3	42.3	41.0	39.7	39.7	39.7	38.4	37.1	35.7	34.4
77.5°	33.1	33.1	31.8	31.8	30.4	30.4	30.4	29.1	27.8	26.5	26.5
80°	23.8	23.8	23.8	23.8	22.5	22.5	22.5	21.2	19.9	19.9	18.5
82.5°	15.9	17.2	15.9	15.9	14.6	14.6	14.6	14.6	13.2	13.2	13.2
85°	9.3	9.3	9.3	9.3	7.9	9.3	7.9	7.9	7.9	7.9	6.6
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P238364

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
2.5°	574.3	573.0	573.0	571.7	571.7	570.4	570.4	569.0	569.0	567.7	566.4
5°	574.3	573.0	571.7	571.7	570.4	569.0	567.7	566.4	563.8	562.4	561.1
7.5°	573.0	571.7	569.0	566.4	565.1	563.8	562.4	559.8	557.1	554.5	551.8
10°	569.0	566.4	562.4	559.8	558.5	555.8	553.2	550.5	546.5	542.6	539.9
12.5°	561.1	557.1	553.2	549.2	547.9	545.2	541.3	537.3	533.3	529.3	525.4
15°	549.2	545.2	541.3	537.3	534.6	533.3	528.0	522.7	518.8	513.5	508.2
17.5°	536.0	532.0	526.7	521.4	518.8	516.1	512.1	505.5	501.6	494.9	491.0
20°	521.4	516.1	509.5	504.2	501.6	498.9	492.3	487.0	480.4	473.8	469.8
22.5°	502.9	496.3	491.0	485.7	481.7	479.1	472.4	465.8	459.2	452.6	446.0
25°	481.7	476.4	469.8	464.5	460.5	456.6	449.9	443.3	435.4	428.8	422.2
27.5°	461.9	455.2	448.6	440.7	438.0	432.7	426.1	419.5	411.6	404.9	397.0
30°	438.0	431.4	423.5	416.9	414.2	410.2	402.3	394.4	387.7	379.8	373.2
32.5°	414.2	407.6	401.0	393.0	389.1	383.8	375.8	367.9	360.0	353.3	345.4
35°	389.1	382.5	374.5	366.6	361.3	356.0	346.7	337.5	329.5	321.6	317.6
37.5°	362.6	354.7	346.7	334.8	329.5	324.2	315.0	307.0	299.1	291.1	287.2
40°	333.5	324.2	315.0	304.4	299.1	292.5	284.5	276.6	268.6	262.0	256.7
42.5°	304.4	292.5	283.2	271.3	267.3	262.0	254.1	244.8	238.2	232.9	227.6
45°	271.3	263.3	252.8	242.2	236.9	232.9	225.0	217.0	210.4	205.1	201.2
47.5°	236.9	232.9	222.3	211.7	209.1	203.8	195.9	189.2	183.9	180.0	176.0
50°	205.1	202.5	195.9	185.3	181.3	177.3	170.7	165.4	160.1	156.2	153.5
52.5°	176.0	173.4	169.4	161.4	157.5	153.5	148.2	142.9	139.0	135.0	133.7
55°	149.5	146.9	142.9	137.6	135.0	131.0	127.0	123.1	119.1	117.8	115.1
57.5°	127.0	123.1	120.4	116.5	115.1	112.5	108.5	105.9	103.2	100.6	97.9
60°	107.2	104.5	101.9	99.3	97.9	96.6	92.6	90.0	87.3	86.0	83.4
62.5°	91.3	88.7	86.0	83.4	82.0	80.7	78.1	75.4	72.8	72.8	70.1
65°	76.8	74.1	72.8	70.1	68.8	67.5	64.8	63.5	60.9	59.6	58.2
67.5°	63.5	62.2	60.9	56.9	56.9	55.6	52.9	51.6	50.3	49.0	47.6
70°	51.6	50.3	49.0	47.6	46.3	45.0	43.7	42.3	39.7	39.7	38.4
72.5°	42.3	41.0	38.4	37.1	37.1	35.7	34.4	33.1	31.8	30.4	30.4
75°	33.1	31.8	30.4	29.1	27.8	27.8	26.5	25.1	25.1	23.8	22.5
77.5°	25.1	23.8	22.5	21.2	21.2	19.9	19.9	18.5	18.5	17.2	17.2
80°	17.2	17.2	15.9	15.9	14.6	14.6	13.2	13.2	13.2	11.9	11.9
82.5°	11.9	10.6	10.6	10.6	9.3	9.3	9.3	9.3	7.9	7.9	7.9
85°	6.6	6.6	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.0	4.0
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P238364

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

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
2.5°	566.4	565.1	563.8	563.8	563.8	562.4	562.4	561.1	559.8	559.8	558.5
5°	558.5	557.1	555.8	554.5	554.5	551.8	551.8	550.5	549.2	547.9	546.5
7.5°	549.2	546.5	545.2	542.6	542.6	541.3	537.3	536.0	534.6	532.0	530.7
10°	537.3	533.3	530.7	529.3	526.7	525.4	521.4	520.1	517.4	516.1	513.5
12.5°	521.4	517.4	513.5	512.1	510.8	506.8	504.2	500.2	497.6	494.9	492.3
15°	504.2	500.2	494.9	493.6	492.3	487.0	483.0	480.4	476.4	473.8	471.1
17.5°	484.3	479.1	473.8	472.4	469.8	464.5	461.9	457.9	452.6	449.9	447.3
20°	463.2	457.9	452.6	451.3	448.6	443.3	438.0	434.1	430.1	427.4	423.5
22.5°	439.4	434.1	427.4	424.8	423.5	416.9	412.9	408.9	404.9	399.7	397.0
25°	416.9	410.2	404.9	401.0	398.3	393.0	389.1	382.5	379.8	374.5	371.9
27.5°	391.7	385.1	379.8	375.8	373.2	369.2	362.6	357.3	353.3	349.4	346.7
30°	366.6	360.0	354.7	350.7	348.0	342.7	336.1	333.5	328.2	324.2	320.3
32.5°	340.1	333.5	326.9	325.5	321.6	316.3	312.3	307.0	303.0	299.1	295.1
35°	309.7	305.7	300.4	299.1	296.4	291.1	287.2	283.2	279.2	273.9	270.0
37.5°	280.6	275.3	272.6	270.0	268.6	266.0	262.0	258.1	254.1	250.1	248.8
40°	251.4	247.5	243.5	243.5	242.2	239.5	236.9	234.2	231.6	227.6	225.0
42.5°	223.6	219.7	218.4	215.7	214.4	213.1	210.4	209.1	207.8	205.1	202.5
45°	197.2	194.5	191.9	190.6	189.2	187.9	187.9	185.3	183.9	182.6	180.0
47.5°	172.0	170.7	169.4	168.1	166.7	166.7	164.1	162.8	161.4	161.4	158.8
50°	150.9	149.5	148.2	146.9	145.6	145.6	144.2	142.9	141.6	140.3	137.6
52.5°	132.3	131.0	128.4	128.4	128.4	127.0	125.7	124.4	123.1	121.7	120.4
55°	113.8	112.5	111.2	111.2	109.8	109.8	108.5	107.2	105.9	104.5	103.2
57.5°	97.9	96.6	95.3	95.3	94.0	94.0	92.6	91.3	88.7	87.3	86.0
60°	83.4	82.0	80.7	80.7	79.4	78.1	78.1	75.4	74.1	72.8	70.1
62.5°	68.8	67.5	67.5	66.2	66.2	66.2	64.8	62.2	60.9	58.2	56.9
65°	56.9	55.6	55.6	54.3	54.3	52.9	51.6	50.3	47.6	46.3	43.7
67.5°	46.3	46.3	45.0	43.7	43.7	42.3	41.0	38.4	37.1	34.4	33.1
70°	37.1	35.7	35.7	34.4	33.1	31.8	30.4	29.1	27.8	27.8	27.8
72.5°	29.1	27.8	27.8	26.5	26.5	23.8	22.5	22.5	22.5	22.5	22.5
75°	22.5	21.2	19.9	19.9	18.5	18.5	17.2	17.2	17.2	17.2	18.5
77.5°	15.9	15.9	14.6	14.6	13.2	13.2	13.2	13.2	13.2	13.2	14.6
80°	11.9	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
82.5°	7.9	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.9
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.3	4.0	4.0
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P238364

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

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
2.5°	558.5	558.5	558.5	558.5	558.5	557.1	558.5	558.5
5°	546.5	545.2	545.2	543.9	543.9	543.9	543.9	542.6
7.5°	529.3	528.0	528.0	528.0	526.7	526.7	525.4	526.7
10°	510.8	509.5	508.2	509.5	506.8	506.8	506.8	506.8
12.5°	491.0	489.6	488.3	487.0	487.0	485.7	485.7	485.7
15°	468.5	467.1	465.8	464.5	464.5	461.9	461.9	460.5
17.5°	444.6	443.3	442.0	440.7	438.0	438.0	436.7	438.0
20°	419.5	416.9	415.5	415.5	414.2	412.9	411.6	411.6
22.5°	394.4	391.7	391.7	389.1	387.7	386.4	385.1	383.8
25°	367.9	365.2	365.2	362.6	361.3	360.0	360.0	358.6
27.5°	342.7	338.8	338.8	337.5	334.8	333.5	333.5	334.8
30°	317.6	315.0	313.6	311.0	309.7	308.3	307.0	308.3
32.5°	292.5	288.5	287.2	287.2	285.8	284.5	283.2	281.9
35°	267.3	266.0	263.3	262.0	259.4	259.4	258.1	258.1
37.5°	244.8	240.9	239.5	238.2	236.9	235.6	234.2	235.6
40°	221.0	218.4	215.7	215.7	213.1	211.7	210.4	211.7
42.5°	199.8	197.2	195.9	193.2	190.6	189.2	189.2	187.9
45°	178.7	174.7	174.7	170.7	169.4	168.1	166.7	166.7
47.5°	157.5	154.8	152.2	152.2	148.2	146.9	145.6	145.6
50°	137.6	133.7	132.3	131.0	128.4	125.7	124.4	124.4
52.5°	117.8	115.1	112.5	112.5	109.8	107.2	105.9	104.5
55°	100.6	97.9	96.6	94.0	92.6	88.7	87.3	87.3
57.5°	83.4	80.7	79.4	78.1	75.4	72.8	70.1	70.1
60°	68.8	66.2	66.2	63.5	60.9	58.2	55.6	55.6
62.5°	54.3	51.6	51.6	50.3	47.6	46.3	45.0	43.7
65°	42.3	39.7	39.7	39.7	39.7	39.7	38.4	39.7
67.5°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
70°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
72.5°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
75°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
77.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
80°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
85°	4.0	5.3	5.3	5.3	5.3	5.3	4.0	4.0
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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