

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: P238324

Luminaire Tested: **PRS615D010-S6M12-61SWWC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238324
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 940.7 lumens
Efficiency: N/A
Efficacy: 74.7 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

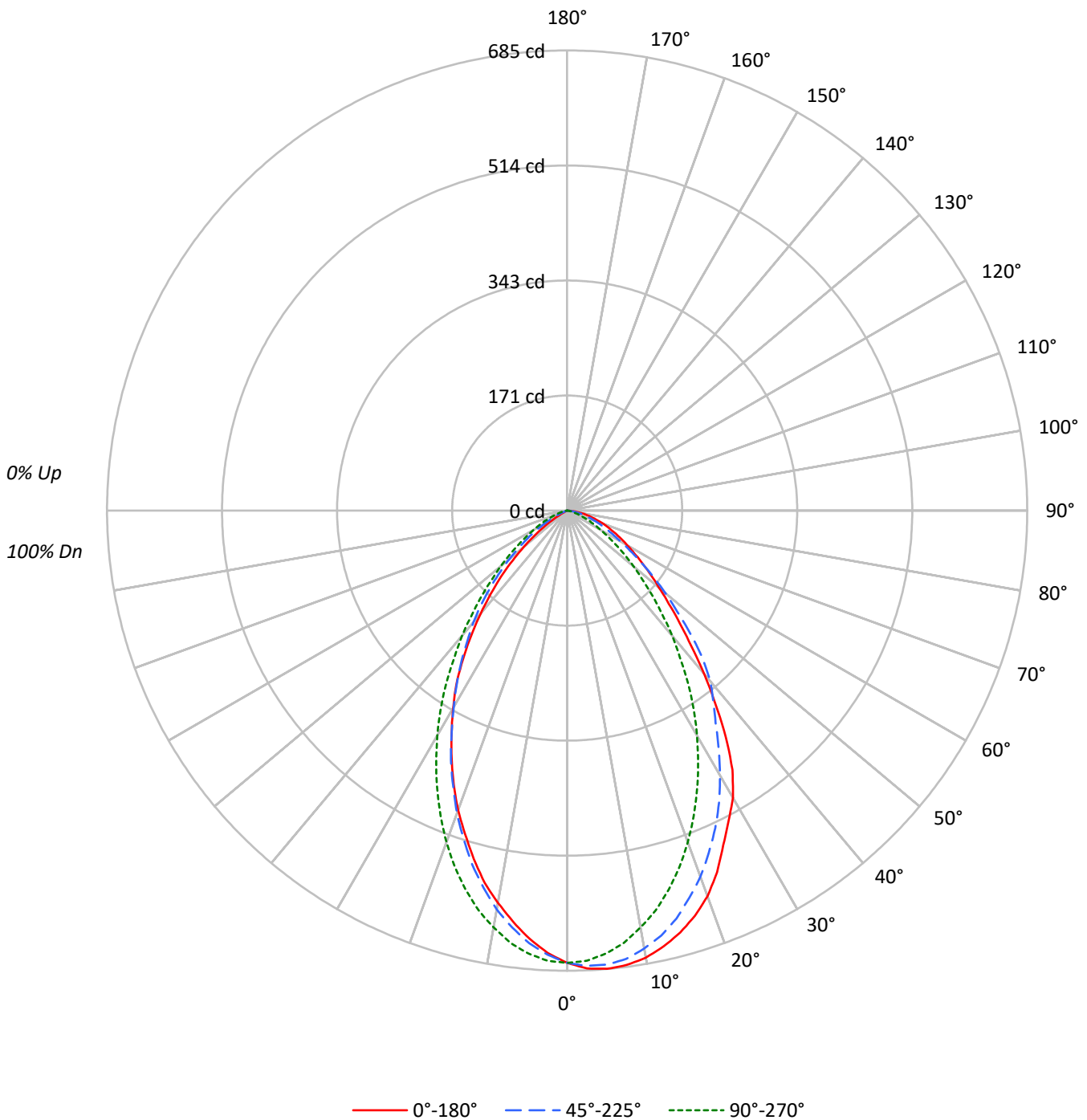
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	28989	28989	28989
5°	29593	28603	27665
10°	29546	27539	25922
15°	28987	26032	23928
20°	27986	24073	21732
25°	26110	21749	19326
30°	24535	19210	16864
35°	21650	16488	14207
40°	17845	13686	11252
45°	14443	10948	8464
50°	11956	8627	5640
55°	10239	6606	3063
60°	8895	4943	878
65°	7926	3637	0
70°	7226	2404	0
75°	6155	1481	0
80°	5380	942	0
85°	3804	642	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	6.6
10°-20°	164.5	17.5
20°-30°	213.7	22.7
30°-40°	205.4	21.8
40°-50°	151.2	16.1
50°-60°	86.8	9.2
60°-70°	39.3	4.2
70°-80°	14.7	1.6
80°-90°	2.8	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°	440.5	46.8
0°-40°	645.9	68.7
0°-60°	883.9	94.0
0°-90°	940.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	673	673	673	673	673	
5°	685	678	662	646	640	65
15°	650	629	584	546	537	183
25°	550	522	458	409	407	253
35°	412	385	314	274	270	255
45°	237	260	180	161	139	185
55°	136	134	88	71	41	123
65°	78	62	36	15	0	78
75°	37	26	9	0	0	40
85°	8	4	1	0	0	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3
2.5°	682.2	682.2	682.2	680.9	680.9	682.2	680.9	680.9	679.6	679.6	678.4
5°	684.7	684.7	684.7	684.7	683.5	683.5	683.5	682.2	680.9	679.6	678.4
7.5°	682.2	682.2	682.2	682.2	680.9	680.9	679.6	678.4	677.1	674.5	673.3
10°	675.8	675.8	675.8	674.5	673.3	672.0	672.0	669.4	666.9	664.3	661.8
12.5°	664.3	664.3	663.1	663.1	660.5	660.5	659.2	656.7	654.1	651.6	647.8
15°	650.3	649.0	649.0	647.8	645.2	643.9	642.7	638.8	635.0	631.2	628.6
17.5°	632.5	631.2	629.9	628.6	624.8	622.3	621.0	617.2	613.3	609.5	604.4
20°	610.8	609.5	608.2	605.7	603.1	600.6	598.0	594.2	589.1	584.0	580.2
22.5°	582.7	581.5	580.2	578.9	575.1	572.5	571.3	567.4	562.3	557.2	550.9
25°	549.6	549.6	550.9	547.0	544.5	541.9	541.9	538.1	533.0	526.6	521.5
27.5°	520.3	520.3	517.7	515.2	511.3	508.8	507.5	503.7	501.1	496.0	489.6
30°	493.5	492.2	489.6	487.1	483.3	479.4	475.6	470.5	465.4	460.3	455.2
32.5°	457.8	456.5	456.5	456.5	452.7	451.4	448.8	442.5	436.1	427.2	419.5
35°	411.9	410.6	409.3	410.6	413.1	414.4	415.7	413.1	406.8	396.6	385.1
37.5°	362.1	363.4	364.7	366.0	369.8	372.3	371.1	376.2	374.9	368.5	357.0
40°	317.5	317.5	318.8	322.6	326.4	327.7	329.0	334.1	334.1	335.4	331.5
42.5°	272.9	276.7	278.0	280.5	284.4	286.9	289.5	294.6	295.8	300.9	298.4
45°	237.2	239.7	242.3	244.8	248.6	251.2	252.5	256.3	260.1	262.7	260.1
47.5°	205.3	206.6	207.8	210.4	214.2	215.5	218.0	221.9	225.7	224.4	221.9
50°	178.5	179.8	179.8	183.6	186.2	187.4	187.4	192.5	192.5	192.5	190.0
52.5°	156.8	156.8	158.1	159.4	161.9	161.9	164.5	167.0	164.5	163.2	160.7
55°	136.4	136.4	137.7	139.0	139.0	140.3	141.5	141.5	139.0	136.4	133.9
57.5°	118.6	119.9	119.9	121.1	122.4	121.1	122.4	119.9	117.3	114.8	110.9
60°	103.3	104.6	104.6	105.8	105.8	105.8	104.6	102.0	98.2	95.6	91.8
62.5°	90.5	90.5	90.5	90.5	90.5	90.5	89.3	86.7	82.9	80.3	76.5
65°	77.8	77.8	77.8	77.8	76.5	76.5	75.2	72.7	68.9	66.3	62.5
67.5°	66.3	66.3	66.3	66.3	65.0	63.8	62.5	61.2	57.4	54.8	52.3
70°	57.4	56.1	56.1	54.8	53.6	52.3	52.3	49.7	47.2	44.6	42.1
72.5°	45.9	45.9	45.9	45.9	43.4	43.4	42.1	39.5	37.0	35.7	33.2
75°	37.0	37.0	37.0	35.7	34.4	34.4	33.2	31.9	29.3	28.1	25.5
77.5°	29.3	29.3	29.3	28.1	26.8	25.5	25.5	24.2	21.7	20.4	19.1
80°	21.7	21.7	20.4	19.1	19.1	17.9	17.9	16.6	15.3	14.0	12.8
82.5°	14.0	14.0	14.0	12.8	12.8	11.5	11.5	11.5	10.2	8.9	7.7
85°	7.7	7.7	7.7	6.4	6.4	6.4	6.4	6.4	5.1	5.1	3.8
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3
2.5°	678.4	677.1	675.8	675.8	674.5	674.5	673.3	672.0	670.7	670.7	669.4
5°	677.1	675.8	673.3	672.0	670.7	669.4	668.2	665.6	664.3	661.8	660.5
7.5°	670.7	668.2	665.6	663.1	661.8	660.5	656.7	654.1	651.6	649.0	646.5
10°	659.2	656.7	652.9	650.3	647.8	645.2	642.7	637.6	633.7	629.9	626.1
12.5°	643.9	640.1	636.3	631.2	629.9	627.4	623.5	618.4	614.6	609.5	604.4
15°	624.8	618.4	615.9	609.5	607.0	604.4	600.6	595.5	590.4	584.0	578.9
17.5°	599.3	592.9	590.4	584.0	581.5	578.9	572.5	567.4	562.3	556.0	549.6
20°	573.8	568.7	562.3	556.0	553.4	550.9	543.2	538.1	533.0	525.4	520.3
22.5°	544.5	538.1	531.7	526.6	522.8	520.3	513.9	507.5	499.8	492.2	485.8
25°	515.2	507.5	501.1	494.7	489.6	487.1	479.4	471.8	464.1	457.8	450.1
27.5°	482.0	475.6	468.0	459.0	455.2	451.4	443.7	434.8	428.4	422.1	414.4
30°	447.6	441.2	432.3	424.6	420.8	417.0	409.3	401.7	395.3	386.4	378.7
32.5°	413.1	406.8	399.1	391.5	388.9	383.8	374.9	368.5	359.6	350.7	344.3
35°	380.0	374.9	367.2	358.3	351.9	346.8	337.9	327.7	320.1	313.7	307.3
37.5°	349.4	341.7	331.5	320.1	313.7	308.6	297.1	289.5	283.1	275.4	272.9
40°	317.5	304.8	293.3	281.8	276.7	270.3	261.4	253.7	248.6	243.5	237.2
42.5°	286.9	270.3	257.6	247.4	241.0	237.2	227.0	221.9	215.5	209.1	206.6
45°	252.5	239.7	224.4	214.2	209.1	205.3	196.4	190.0	183.6	179.8	176.0
47.5°	218.0	207.8	193.8	182.3	178.5	174.7	168.3	160.7	155.6	151.7	147.9
50°	183.6	176.0	168.3	155.6	151.7	150.5	142.8	136.4	131.3	128.8	125.0
52.5°	155.6	149.2	141.5	132.6	128.8	125.0	119.9	113.5	110.9	107.1	104.6
55°	128.8	122.4	118.6	112.2	107.1	104.6	99.5	95.6	91.8	88.0	85.4
57.5°	105.8	102.0	98.2	93.1	90.5	88.0	82.9	79.1	75.2	71.4	68.9
60°	88.0	84.2	80.3	76.5	74.0	72.7	67.6	63.8	59.9	57.4	54.8
62.5°	72.7	70.1	66.3	62.5	59.9	58.7	54.8	51.0	47.2	45.9	43.4
65°	59.9	57.4	53.6	49.7	49.7	47.2	43.4	40.8	38.3	35.7	33.2
67.5°	49.7	45.9	43.4	40.8	38.3	37.0	34.4	31.9	29.3	26.8	25.5
70°	39.5	37.0	34.4	30.6	29.3	28.1	25.5	23.0	21.7	19.1	17.9
72.5°	30.6	28.1	25.5	23.0	21.7	20.4	19.1	16.6	15.3	14.0	12.8
75°	24.2	21.7	19.1	16.6	16.6	15.3	14.0	11.5	10.2	8.9	8.9
77.5°	16.6	15.3	14.0	11.5	11.5	10.2	8.9	7.7	7.7	6.4	5.1
80°	11.5	10.2	8.9	7.7	6.4	6.4	5.1	5.1	3.8	3.8	2.6
82.5°	7.7	6.4	5.1	3.8	3.8	3.8	2.6	2.6	2.6	1.3	1.3
85°	3.8	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3
2.5°	668.2	666.9	665.6	665.6	665.6	664.3	663.1	661.8	661.8	660.5	660.5
5°	658.0	655.4	654.1	652.9	652.9	650.3	649.0	647.8	646.5	645.2	643.9
7.5°	642.7	640.1	637.6	635.0	635.0	632.5	629.9	628.6	626.1	624.8	623.5
10°	623.5	621.0	617.2	614.6	612.1	610.8	607.0	604.4	603.1	599.3	598.0
12.5°	599.3	595.5	591.7	589.1	587.8	584.0	580.2	578.9	575.1	572.5	571.3
15°	573.8	568.7	563.6	562.3	559.8	556.0	552.1	548.3	545.8	541.9	541.9
17.5°	544.5	538.1	534.3	530.5	529.2	524.1	519.0	516.4	512.6	510.1	508.8
20°	512.6	506.2	501.1	498.6	494.7	490.9	485.8	483.3	479.4	476.9	475.6
22.5°	478.2	470.5	465.4	462.9	460.3	453.9	450.1	447.6	443.7	441.2	439.9
25°	442.5	437.4	431.0	427.2	424.6	418.2	414.4	411.9	409.3	406.8	405.5
27.5°	406.8	399.1	392.7	390.2	387.6	383.8	377.4	373.6	372.3	371.1	369.8
30°	371.1	364.7	358.3	354.5	350.7	346.8	343.0	339.2	337.9	335.4	332.8
32.5°	337.9	331.5	325.2	322.6	320.1	313.7	309.9	307.3	306.0	300.9	299.7
35°	303.5	298.4	294.6	292.0	290.7	285.6	283.1	276.7	274.2	271.6	270.3
37.5°	267.8	262.7	258.9	258.9	256.3	253.7	251.2	248.6	243.5	242.3	241.0
40°	233.3	229.5	227.0	224.4	224.4	223.1	220.6	220.6	216.8	214.2	210.4
42.5°	201.5	198.9	196.4	196.4	195.1	193.8	191.3	191.3	188.7	186.2	182.3
45°	172.1	168.3	167.0	167.0	165.8	164.5	163.2	163.2	160.7	158.1	155.6
47.5°	145.4	142.8	141.5	140.3	139.0	139.0	137.7	136.4	135.2	132.6	130.1
50°	122.4	119.9	118.6	117.3	117.3	116.0	114.8	112.2	112.2	108.4	105.8
52.5°	102.0	100.7	98.2	96.9	95.6	94.4	93.1	91.8	89.3	86.7	85.4
55°	82.9	80.3	79.1	77.8	76.5	75.2	74.0	72.7	71.4	67.6	65.0
57.5°	66.3	63.8	62.5	62.5	61.2	58.7	57.4	56.1	53.6	51.0	47.2
60°	52.3	51.0	48.5	48.5	47.2	44.6	43.4	40.8	38.3	34.4	31.9
62.5°	40.8	39.5	37.0	35.7	35.7	33.2	30.6	28.1	25.5	23.0	19.1
65°	30.6	29.3	28.1	26.8	25.5	23.0	20.4	17.9	15.3	11.5	7.7
67.5°	23.0	21.7	19.1	19.1	17.9	15.3	12.8	10.2	6.4	3.8	1.3
70°	16.6	15.3	12.8	11.5	11.5	8.9	6.4	3.8	0.0	0.0	0.0
72.5°	11.5	10.2	7.7	6.4	6.4	3.8	1.3	0.0	0.0	0.0	0.0
75°	7.7	6.4	3.8	3.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.8	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: P238324

CATALOG NUMBER: PRS615D010-S6M12-61SWWC-3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.3
2.5°	660.5	659.2	659.2	659.2	658.0	659.2	659.2	659.2
5°	642.7	642.7	641.4	641.4	641.4	640.1	640.1	640.1
7.5°	621.0	621.0	619.7	619.7	619.7	618.4	617.2	617.2
10°	596.8	596.8	595.5	595.5	595.5	594.2	592.9	592.9
12.5°	568.7	568.7	568.7	567.4	567.4	567.4	566.2	567.4
15°	540.7	539.4	539.4	538.1	536.8	536.8	536.8	536.8
17.5°	507.5	506.2	506.2	504.9	506.2	504.9	504.9	504.9
20°	473.1	473.1	473.1	473.1	473.1	473.1	474.3	474.3
22.5°	439.9	438.6	439.9	438.6	438.6	439.9	439.9	441.2
25°	405.5	404.2	404.2	405.5	405.5	405.5	406.8	406.8
27.5°	367.2	369.8	369.8	371.1	371.1	372.3	373.6	372.3
30°	334.1	334.1	334.1	335.4	336.6	337.9	339.2	339.2
32.5°	298.4	299.7	300.9	299.7	300.9	303.5	306.0	307.3
35°	269.1	266.5	265.2	265.2	266.5	267.8	269.1	270.3
37.5°	237.2	235.9	234.6	232.1	233.3	234.6	234.6	234.6
40°	207.8	205.3	204.0	202.7	201.5	200.2	200.2	200.2
42.5°	179.8	177.2	174.7	174.7	170.9	169.6	169.6	168.3
45°	153.0	150.5	147.9	147.9	144.1	140.3	139.0	139.0
47.5°	127.5	123.7	122.4	121.1	117.3	113.5	110.9	109.7
50°	103.3	99.5	98.2	96.9	93.1	88.0	85.4	84.2
52.5°	81.6	77.8	75.2	74.0	68.9	65.0	62.5	61.2
55°	61.2	58.7	56.1	54.8	49.7	44.6	40.8	40.8
57.5°	44.6	39.5	38.3	37.0	31.9	28.1	24.2	23.0
60°	29.3	24.2	23.0	21.7	16.6	12.8	11.5	10.2
62.5°	15.3	11.5	10.2	8.9	6.4	3.8	2.6	2.6
65°	5.1	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)