

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: P238339

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-26)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SWWH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 920.3 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 0.98 / 1.08
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

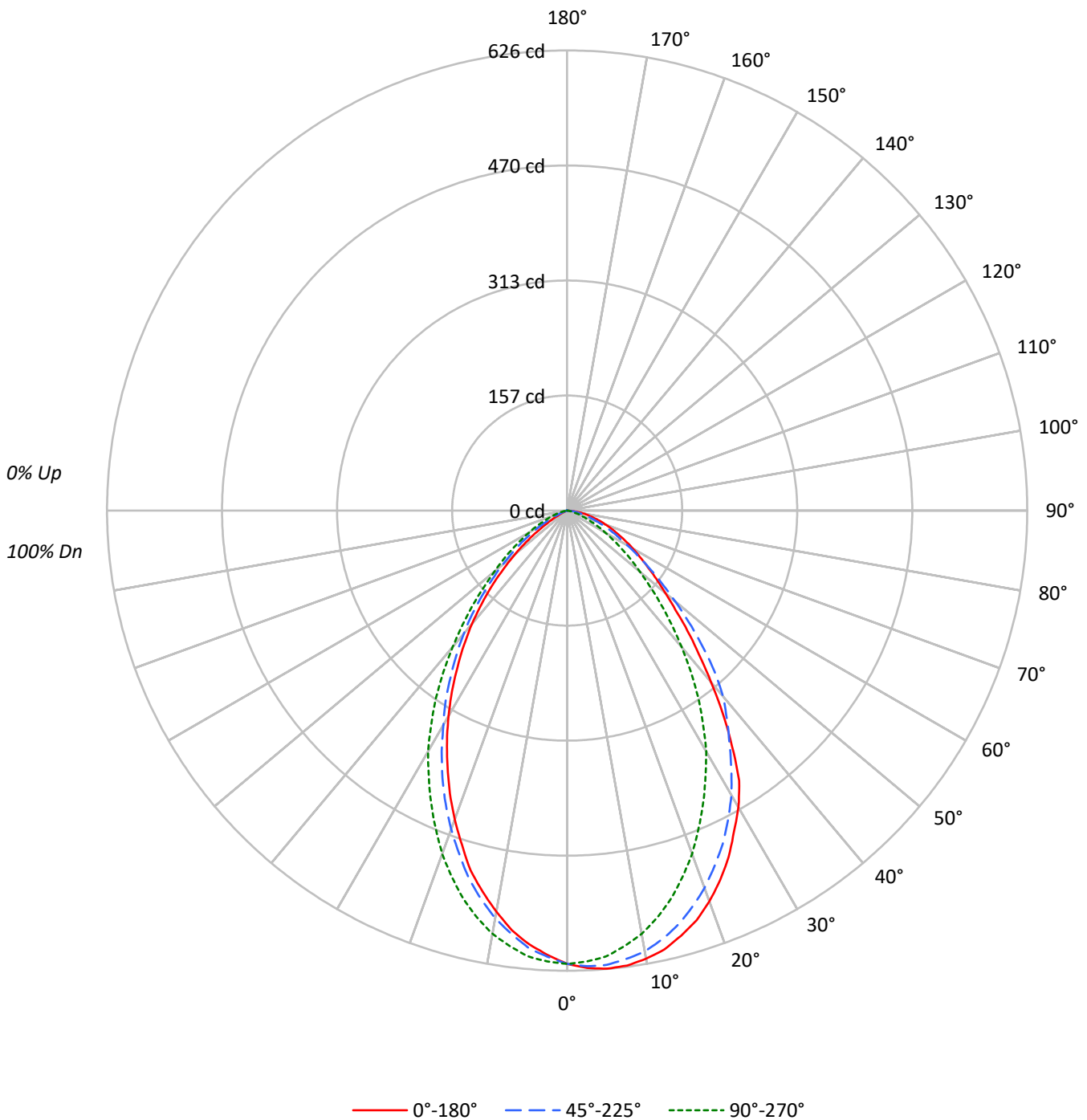
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80					80			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	54	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26548	26548	26548
5°	27034	26317	25604
10°	27067	25563	24225
15°	26687	24360	22599
20°	25915	22763	20486
25°	24694	20817	18276
30°	23178	18808	16024
35°	20557	16336	13661
40°	17114	13602	11314
45°	14114	11015	8841
50°	11688	8621	6229
55°	10044	6786	3731
60°	8887	5158	1645
65°	7784	3759	520
70°	7062	2568	315
75°	6138	1697	216
80°	5380	942	0
85°	3754	642	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	6.2
10°-20°	154.0	16.7
20°-30°	205.3	22.3
30°-40°	202.6	22.0
40°-50°	151.9	16.5
50°-60°	89.2	9.7
60°-70°	41.5	4.5
70°-80°	15.6	1.7
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°	416.6	45.3
0°-40°	619.2	67.3
0°-60°	860.3	93.5
0°-90°	920.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	617	617	617	617	617	
5°	626	620	609	598	592	59
15°	599	583	546	517	507	168
25°	520	501	438	401	385	238
35°	391	385	311	276	260	243
45°	232	260	181	163	145	180
55°	134	136	90	75	50	121
65°	76	66	37	18	5	77
75°	37	27	10	1	1	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°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	622.9	622.9	622.9	622.9	621.7	621.7	621.7	621.7	621.7	620.4	620.4
5°	625.5	625.5	624.2	624.2	624.2	624.2	622.9	622.9	621.7	621.7	620.4
7.5°	624.2	622.9	622.9	622.9	621.7	621.7	621.7	620.4	619.1	617.8	615.3
10°	619.1	619.1	619.1	617.8	616.6	616.6	616.6	614.0	612.7	610.2	608.9
12.5°	611.5	610.2	610.2	608.9	607.6	607.6	606.4	603.8	602.6	600.0	597.5
15°	598.7	598.7	598.7	597.5	596.2	594.9	593.6	592.4	589.8	587.3	583.4
17.5°	584.7	583.4	583.4	582.2	579.6	579.6	578.3	575.8	573.3	570.7	565.6
20°	565.6	565.6	565.6	564.3	563.1	560.5	560.5	556.7	554.1	550.3	546.5
22.5°	544.0	544.0	544.0	542.7	541.4	540.1	538.9	536.3	532.5	528.7	523.6
25°	519.8	518.5	518.5	518.5	517.2	515.9	514.7	512.1	509.6	505.7	500.6
27.5°	491.7	490.5	490.5	490.5	489.2	487.9	486.6	486.6	484.1	479.0	473.9
30°	466.2	466.2	466.2	463.7	461.2	459.9	459.9	457.3	453.5	451.0	447.1
32.5°	435.7	435.7	436.9	435.7	435.7	435.7	433.1	430.6	425.5	421.7	415.3
35°	391.1	393.6	394.9	397.5	400.0	402.6	403.8	403.8	398.7	392.4	384.7
37.5°	347.8	349.0	350.3	355.4	358.0	360.5	361.8	366.9	370.7	364.3	356.7
40°	304.5	305.7	309.6	310.8	317.2	318.5	322.3	327.4	332.5	333.8	329.9
42.5°	265.0	266.2	268.8	271.3	277.7	281.5	282.8	286.6	293.0	298.1	296.8
45°	231.8	231.8	233.1	236.9	240.8	243.3	247.1	252.2	257.3	259.9	259.9
47.5°	200.0	200.0	201.3	205.1	210.2	210.2	212.7	217.8	224.2	224.2	224.2
50°	174.5	175.8	175.8	178.3	180.9	182.2	184.7	189.8	192.4	192.4	191.1
52.5°	152.9	152.9	154.1	155.4	156.7	159.2	159.2	161.8	164.3	164.3	161.8
55°	133.8	133.8	133.8	135.0	136.3	137.6	138.9	140.1	138.9	137.6	136.3
57.5°	117.2	117.2	117.2	117.2	118.5	119.7	119.7	119.7	118.5	117.2	113.4
60°	103.2	103.2	103.2	103.2	103.2	103.2	103.2	101.9	99.4	98.1	95.5
62.5°	89.2	89.2	89.2	89.2	89.2	89.2	87.9	86.6	85.4	81.5	79.0
65°	76.4	77.7	77.7	76.4	76.4	75.2	75.2	72.6	71.3	68.8	66.2
67.5°	66.2	66.2	66.2	66.2	65.0	63.7	63.7	61.1	59.9	57.3	53.5
70°	56.1	56.1	54.8	54.8	54.8	53.5	52.2	51.0	48.4	45.9	43.3
72.5°	45.9	45.9	45.9	45.9	43.3	43.3	42.0	40.8	38.2	36.9	34.4
75°	36.9	36.9	36.9	35.7	35.7	34.4	33.1	31.8	30.6	28.0	26.8
77.5°	29.3	29.3	29.3	28.0	26.8	26.8	25.5	24.2	22.9	21.7	19.1
80°	21.7	21.7	20.4	20.4	19.1	19.1	19.1	17.8	16.6	15.3	14.0
82.5°	14.0	14.0	14.0	14.0	12.7	12.7	11.5	11.5	10.2	8.9	8.9
85°	7.6	7.6	7.6	7.6	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	1.3	2.5	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°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	619.1	619.1	617.8	617.8	617.8	616.6	616.6	615.3	615.3	614.0	614.0
5°	619.1	617.8	616.6	615.3	614.0	614.0	612.7	610.2	608.9	608.9	606.4
7.5°	614.0	612.7	610.2	608.9	607.6	606.4	603.8	602.6	600.0	597.5	596.2
10°	606.4	603.8	600.0	597.5	597.5	594.9	592.4	589.8	586.0	584.7	580.9
12.5°	593.6	589.8	587.3	584.7	582.2	580.9	577.1	574.5	569.4	566.9	563.1
15°	579.6	575.8	572.0	566.9	565.6	563.1	559.2	554.1	551.6	546.5	542.7
17.5°	563.1	556.7	552.9	547.8	545.2	542.7	536.3	532.5	528.7	522.3	518.5
20°	541.4	536.3	531.2	524.8	522.3	518.5	513.4	507.0	501.9	496.8	491.7
22.5°	518.5	513.4	507.0	500.6	496.8	493.0	486.6	480.3	473.9	467.5	463.7
25°	493.0	486.6	480.3	473.9	468.8	466.2	458.6	452.2	444.6	438.2	433.1
27.5°	467.5	461.2	453.5	444.6	439.5	436.9	429.3	420.4	412.7	407.6	401.3
30°	439.5	431.9	422.9	415.3	410.2	406.4	400.0	391.1	384.7	378.3	369.4
32.5°	408.9	401.3	394.9	384.7	380.9	377.1	368.2	359.2	350.3	344.0	338.9
35°	378.3	373.3	365.6	355.4	349.0	344.0	332.5	324.8	317.2	310.8	305.7
37.5°	350.3	342.7	329.9	318.5	313.4	309.6	296.8	289.2	280.3	276.4	268.8
40°	319.7	308.3	296.8	285.4	280.3	275.2	266.2	254.8	248.4	242.0	236.9
42.5°	289.2	273.9	262.4	252.2	245.9	240.8	230.6	221.7	214.0	210.2	205.1
45°	254.8	243.3	230.6	219.1	215.3	208.9	200.0	192.4	186.0	180.9	177.1
47.5°	219.1	212.7	200.0	189.8	184.7	179.6	172.0	164.3	158.0	152.9	150.3
50°	187.3	182.2	173.3	161.8	158.0	152.9	145.2	140.1	133.8	128.7	126.1
52.5°	158.0	152.9	146.5	137.6	132.5	129.9	122.3	117.2	113.4	109.6	105.7
55°	132.5	127.4	122.3	114.7	110.8	107.0	101.9	96.8	93.0	90.4	87.9
57.5°	110.8	105.7	100.6	95.5	91.7	89.2	84.1	81.5	77.7	73.9	72.6
60°	91.7	87.9	84.1	79.0	76.4	72.6	68.8	65.0	62.4	59.9	57.3
62.5°	76.4	72.6	68.8	63.7	62.4	59.9	56.1	52.2	49.7	48.4	45.9
65°	62.4	58.6	56.1	52.2	49.7	48.4	44.6	42.0	39.5	36.9	34.4
67.5°	51.0	48.4	45.9	42.0	39.5	38.2	34.4	31.8	30.6	28.0	26.8
70°	40.8	38.2	35.7	33.1	30.6	29.3	26.8	24.2	22.9	20.4	19.1
72.5°	31.8	29.3	28.0	24.2	22.9	21.7	19.1	17.8	16.6	15.3	14.0
75°	24.2	22.9	20.4	17.8	16.6	16.6	14.0	12.7	11.5	10.2	8.9
77.5°	17.8	16.6	14.0	12.7	11.5	11.5	10.2	8.9	7.6	6.4	6.4
80°	12.7	10.2	8.9	7.6	7.6	6.4	6.4	5.1	3.8	3.8	2.5
82.5°	7.6	6.4	5.1	5.1	3.8	3.8	3.8	2.5	2.5	1.3	1.3
85°	3.8	2.5	2.5	2.5	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°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	612.7	611.5	611.5	611.5	610.2	610.2	608.9	608.9	607.6	607.6	607.6
5°	605.1	603.8	602.6	601.3	601.3	600.0	598.7	598.7	597.5	596.2	594.9
7.5°	593.6	592.4	591.1	588.5	587.3	586.0	584.7	582.2	580.9	579.6	579.6
10°	578.3	575.8	573.3	572.0	572.0	568.2	566.9	565.6	563.1	561.8	559.2
12.5°	559.2	556.7	554.1	551.6	550.3	547.8	546.5	544.0	541.4	538.9	536.3
15°	538.9	535.0	531.2	529.9	527.4	526.1	522.3	518.5	517.2	514.7	513.4
17.5°	513.4	508.3	507.0	504.5	501.9	499.4	496.8	493.0	489.2	487.9	484.1
20°	486.6	482.8	477.7	476.4	473.9	471.3	467.5	463.7	461.2	458.6	456.1
22.5°	457.3	454.8	448.4	447.1	444.6	440.8	436.9	433.1	431.9	428.0	425.5
25°	428.0	421.7	417.8	415.3	414.0	410.2	407.6	403.8	401.3	397.5	394.9
27.5°	394.9	391.1	387.3	383.4	382.2	379.6	375.8	372.0	369.4	365.6	363.1
30°	365.6	360.5	355.4	352.9	351.6	346.5	344.0	341.4	336.3	333.8	332.5
32.5°	332.5	327.4	323.6	323.6	319.7	317.2	312.1	309.6	308.3	303.2	300.6
35°	299.4	295.5	293.0	291.7	290.4	285.4	282.8	280.3	276.4	275.2	271.3
37.5°	266.2	261.1	258.6	257.3	256.1	254.8	253.5	249.7	247.1	244.6	242.0
40°	231.8	229.3	226.8	226.8	225.5	224.2	221.7	220.4	219.1	216.6	214.0
42.5°	202.5	198.7	197.5	196.2	196.2	193.6	193.6	192.4	191.1	188.5	186.0
45°	173.3	170.7	169.4	166.9	166.9	165.6	165.6	165.6	163.1	161.8	160.5
47.5°	147.8	145.2	144.0	142.7	141.4	140.1	140.1	140.1	137.6	137.6	135.0
50°	123.6	121.0	121.0	121.0	119.7	118.5	117.2	114.7	114.7	113.4	112.1
52.5°	104.5	101.9	100.6	99.4	99.4	98.1	96.8	95.5	93.0	91.7	90.4
55°	85.4	84.1	81.5	81.5	80.3	79.0	77.7	76.4	75.2	71.3	70.1
57.5°	70.1	67.5	66.2	65.0	65.0	63.7	61.1	59.9	57.3	54.8	52.2
60°	56.1	53.5	52.2	51.0	51.0	48.4	47.1	44.6	42.0	39.5	36.9
62.5°	43.3	42.0	39.5	38.2	38.2	36.9	34.4	31.8	29.3	26.8	22.9
65°	33.1	31.8	29.3	29.3	28.0	25.5	22.9	20.4	17.8	15.3	12.7
67.5°	24.2	22.9	21.7	20.4	19.1	16.6	14.0	11.5	8.9	6.4	3.8
70°	17.8	16.6	14.0	14.0	12.7	10.2	7.6	5.1	3.8	2.5	2.5
72.5°	11.5	10.2	8.9	7.6	6.4	5.1	2.5	1.3	1.3	1.3	1.3
75°	7.6	6.4	5.1	3.8	3.8	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	5.1	3.8	2.5	1.3	1.3	0.0	1.3	1.3	0.0	1.3	1.3
80°	2.5	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	1.3	1.3	1.3	1.3	0.0	1.3	0.0	1.3	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



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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	606.4	606.4	606.4	606.4	606.4	606.4	606.4	605.1
5°	593.6	593.6	593.6	593.6	592.4	592.4	592.4	592.4
7.5°	578.3	577.1	575.8	575.8	575.8	574.5	574.5	575.8
10°	558.0	558.0	556.7	556.7	555.4	555.4	555.4	554.1
12.5°	535.0	533.8	533.8	531.2	532.5	531.2	529.9	531.2
15°	509.6	508.3	507.0	507.0	507.0	505.7	505.7	507.0
17.5°	482.8	480.3	479.0	480.3	477.7	477.7	477.7	476.4
20°	453.5	451.0	449.7	449.7	448.4	447.1	447.1	447.1
22.5°	422.9	421.7	419.1	419.1	417.8	417.8	416.6	416.6
25°	393.6	389.8	389.8	388.5	386.0	387.3	384.7	384.7
27.5°	360.5	359.2	359.2	358.0	355.4	354.1	352.9	354.1
30°	329.9	327.4	326.1	324.8	324.8	324.8	323.6	322.3
32.5°	299.4	296.8	294.3	294.3	294.3	291.7	291.7	291.7
35°	268.8	267.5	265.0	263.7	263.7	262.4	261.1	259.9
37.5°	239.5	236.9	235.7	233.1	233.1	230.6	229.3	230.6
40°	210.2	207.6	206.4	206.4	203.8	201.3	201.3	201.3
42.5°	183.4	179.6	179.6	177.1	174.5	173.3	170.7	172.0
45°	158.0	154.1	152.9	152.9	147.8	146.5	145.2	145.2
47.5°	132.5	131.2	128.7	126.1	122.3	118.5	117.2	117.2
50°	109.6	105.7	104.5	103.2	98.1	95.5	93.0	93.0
52.5°	87.9	84.1	81.5	80.3	76.4	72.6	71.3	70.1
55°	67.5	63.7	62.4	61.1	56.1	53.5	51.0	49.7
57.5°	49.7	47.1	44.6	42.0	38.2	35.7	33.1	31.8
60°	34.4	30.6	29.3	28.0	24.2	21.7	19.1	19.1
62.5°	21.7	17.8	16.6	15.3	12.7	10.2	10.2	10.2
65°	8.9	6.4	6.4	6.4	5.1	5.1	5.1	5.1
67.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.3	1.3	1.3	0.0	0.0	1.3	1.3
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

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