

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: P238340

Luminaire Tested: **PRS620D010-S6M12-61SWWH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238340
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: PRS620D010-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: 1500.4 lumens
Efficiency: N/A
Efficacy: 75.0 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

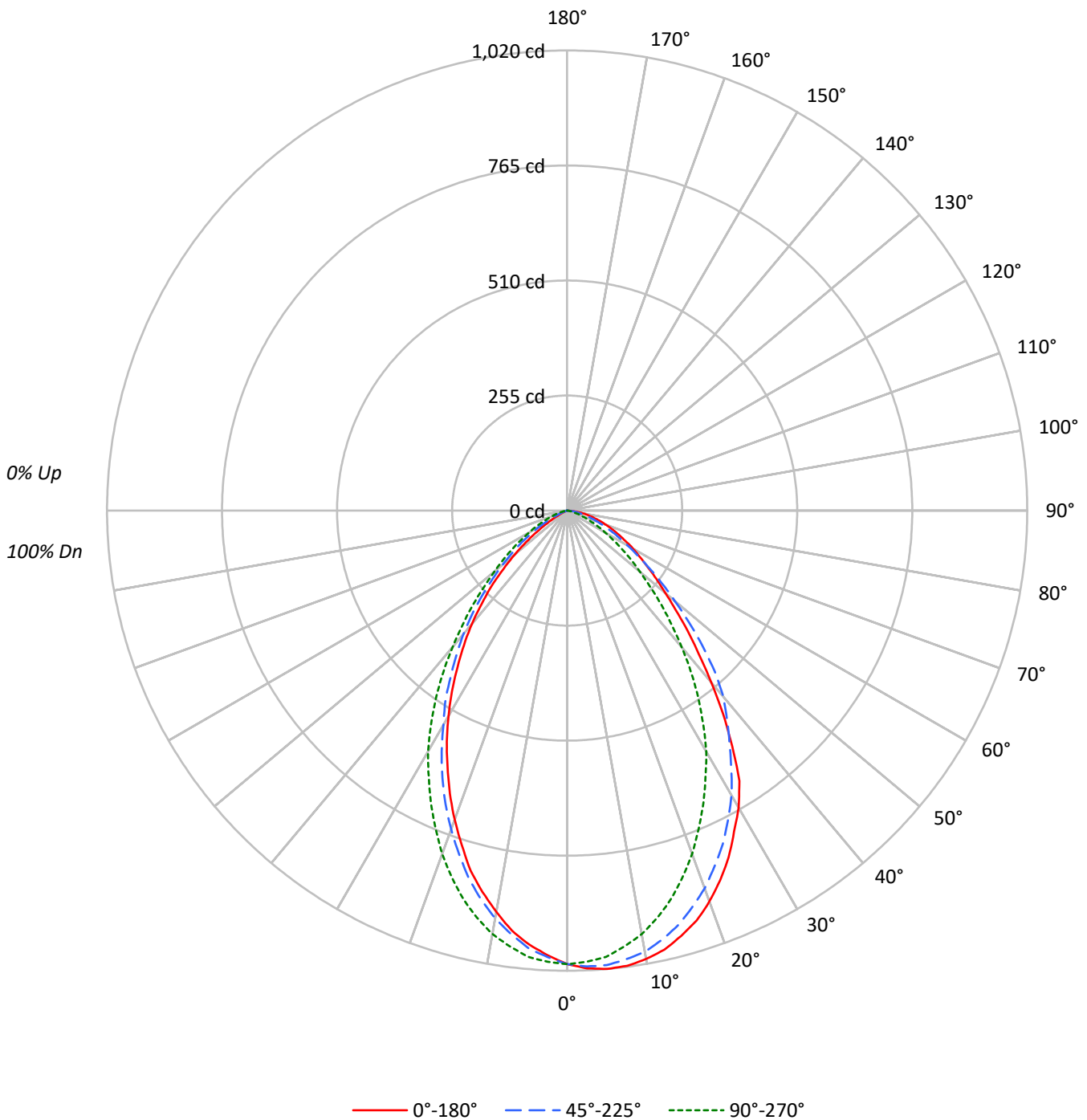
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	43280	43280	43280
5°	44076	42909	41742
10°	44131	41678	39497
15°	43509	39716	36845
20°	42250	37113	33402
25°	40257	33939	29796
30°	37789	30665	26126
35°	33513	26638	22270
40°	27900	22179	18441
45°	23016	17956	14419
50°	19057	14053	10155
55°	16372	11072	6080
60°	14484	8404	2687
65°	12694	6133	846
70°	11506	4179	529
75°	10015	2761	349
80°	8753	1537	0
85°	6175	1037	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	6.2
10°-20°	251.1	16.7
20°-30°	334.6	22.3
30°-40°	330.3	22.0
40°-50°	247.7	16.5
50°-60°	145.4	9.7
60°-70°	67.7	4.5
70°-80°	25.4	1.7
80°-90°	4.8	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°	679.2	45.3
0°-40°	1009.5	67.3
0°-60°	1402.5	93.5
0°-90°	1500.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1500.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1005	1005	1005	1005	1005	
5°	1020	1011	993	974	966	97
15°	976	951	891	843	827	275
25°	847	816	714	654	627	389
35°	638	627	507	451	424	396
45°	378	424	295	266	237	293
55°	218	222	148	122	81	197
65°	125	108	60	29	8	126
75°	60	44	17	2	2	65
85°	12	6	2	0	0	15
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°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1015.6	1015.6	1015.6	1015.6	1013.5	1013.5	1013.5	1013.5	1013.5	1011.4	1011.4
5°	1019.8	1019.8	1017.7	1017.7	1017.7	1017.7	1015.6	1015.6	1013.5	1013.5	1011.4
7.5°	1017.7	1015.6	1015.6	1015.6	1013.5	1013.5	1013.5	1011.4	1009.4	1007.3	1003.1
10°	1009.4	1009.4	1009.4	1007.3	1005.2	1005.2	1005.2	1001.1	999.0	994.8	992.8
12.5°	996.9	994.8	994.8	992.8	990.7	990.7	988.6	984.4	982.4	978.2	974.1
15°	976.1	976.1	976.1	974.1	972.0	969.9	967.8	965.8	961.6	957.4	951.2
17.5°	953.3	951.2	951.2	949.1	945.0	945.0	942.9	938.8	934.6	930.4	922.1
20°	922.1	922.1	922.1	920.1	918.0	913.8	913.8	907.6	903.4	897.2	891.0
22.5°	886.8	886.8	886.8	884.8	882.7	880.6	878.5	874.4	868.1	861.9	853.6
25°	847.4	845.3	845.3	845.3	843.2	841.1	839.1	834.9	830.8	824.5	816.2
27.5°	801.7	799.6	799.6	799.6	797.5	795.4	793.4	793.4	789.2	780.9	772.6
30°	760.1	760.1	760.1	756.0	751.8	749.8	749.8	745.6	739.4	735.2	729.0
32.5°	710.3	710.3	712.4	710.3	710.3	710.3	706.1	702.0	693.7	687.4	677.1
35°	637.6	641.8	643.8	648.0	652.1	656.3	658.4	658.4	650.1	639.7	627.2
37.5°	567.0	569.1	571.1	579.5	583.6	587.8	589.8	598.1	604.4	594.0	581.5
40°	496.4	498.5	504.7	506.8	517.1	519.2	525.5	533.8	542.1	544.1	537.9
42.5°	432.0	434.1	438.2	442.4	452.8	459.0	461.1	467.3	477.7	486.0	483.9
45°	378.0	378.0	380.1	386.3	392.5	396.7	402.9	411.2	419.5	423.7	423.7
47.5°	326.1	326.1	328.1	334.4	342.7	342.7	346.8	355.1	365.5	365.5	365.5
50°	284.5	286.6	286.6	290.8	294.9	297.0	301.1	309.5	313.6	313.6	311.5
52.5°	249.2	249.2	251.3	253.4	255.5	259.6	259.6	263.8	267.9	267.9	263.8
55°	218.1	218.1	218.1	220.2	222.2	224.3	226.4	228.5	226.4	224.3	222.2
57.5°	191.1	191.1	191.1	191.1	193.2	195.2	195.2	195.2	193.2	191.1	184.8
60°	168.2	168.2	168.2	168.2	168.2	168.2	168.2	166.2	162.0	159.9	155.8
62.5°	145.4	145.4	145.4	145.4	145.4	145.4	143.3	141.2	139.2	132.9	128.8
65°	124.6	126.7	126.7	124.6	124.6	122.5	122.5	118.4	116.3	112.2	108.0
67.5°	108.0	108.0	108.0	108.0	105.9	103.8	103.8	99.7	97.6	93.5	87.2
70°	91.4	91.4	89.3	89.3	89.3	87.2	85.2	83.1	78.9	74.8	70.6
72.5°	74.8	74.8	74.8	74.8	70.6	70.6	68.5	66.5	62.3	60.2	56.1
75°	60.2	60.2	60.2	58.2	58.2	56.1	54.0	51.9	49.8	45.7	43.6
77.5°	47.8	47.8	47.8	45.7	43.6	43.6	41.5	39.5	37.4	35.3	31.2
80°	35.3	35.3	33.2	33.2	31.2	31.2	31.2	29.1	27.0	24.9	22.8
82.5°	22.8	22.8	22.8	22.8	20.8	20.8	18.7	18.7	16.6	14.5	14.5
85°	12.5	12.5	12.5	12.5	10.4	10.4	10.4	10.4	8.3	8.3	6.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	2.1	2.1	2.1	2.1
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°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1009.4	1009.4	1007.3	1007.3	1007.3	1005.2	1005.2	1003.1	1003.1	1001.1	1001.1
5°	1009.4	1007.3	1005.2	1003.1	1001.1	1001.1	999.0	994.8	992.8	992.8	988.6
7.5°	1001.1	999.0	994.8	992.8	990.7	988.6	984.4	982.4	978.2	974.1	972.0
10°	988.6	984.4	978.2	974.1	974.1	969.9	965.8	961.6	955.4	953.3	947.1
12.5°	967.8	961.6	957.4	953.3	949.1	947.1	940.8	936.7	928.4	924.2	918.0
15°	945.0	938.8	932.5	924.2	922.1	918.0	911.8	903.4	899.3	891.0	884.8
17.5°	918.0	907.6	901.4	893.1	888.9	884.8	874.4	868.1	861.9	851.5	845.3
20°	882.7	874.4	866.1	855.7	851.5	845.3	837.0	826.6	818.3	810.0	801.7
22.5°	845.3	837.0	826.6	816.2	810.0	803.8	793.4	783.0	772.6	762.2	756.0
25°	803.8	793.4	783.0	772.6	764.3	760.1	747.7	737.3	724.8	714.4	706.1
27.5°	762.2	751.8	739.4	724.8	716.5	712.4	699.9	685.4	672.9	664.6	654.2
30°	716.5	704.1	689.5	677.1	668.8	662.5	652.1	637.6	627.2	616.8	602.3
32.5°	666.7	654.2	643.8	627.2	621.0	614.8	600.2	585.7	571.1	560.8	552.5
35°	616.8	608.5	596.1	579.5	569.1	560.8	542.1	529.6	517.1	506.8	498.5
37.5°	571.1	558.7	537.9	519.2	510.9	504.7	483.9	471.5	456.9	450.7	438.2
40°	521.3	502.6	483.9	465.2	456.9	448.6	434.1	415.4	405.0	394.6	386.3
42.5°	471.5	446.5	427.8	411.2	400.8	392.5	375.9	361.4	348.9	342.7	334.4
45°	415.4	396.7	375.9	357.2	351.0	340.6	326.1	313.6	303.2	294.9	288.7
47.5°	357.2	346.8	326.1	309.5	301.1	292.8	280.4	267.9	257.5	249.2	245.1
50°	305.3	297.0	282.5	263.8	257.5	249.2	236.8	228.5	218.1	209.8	205.6
52.5°	257.5	249.2	238.8	224.3	216.0	211.8	199.4	191.1	184.8	178.6	172.4
55°	216.0	207.7	199.4	186.9	180.7	174.5	166.2	157.8	151.6	147.5	143.3
57.5°	180.7	172.4	164.1	155.8	149.5	145.4	137.1	132.9	126.7	120.5	118.4
60°	149.5	143.3	137.1	128.8	124.6	118.4	112.2	105.9	101.8	97.6	93.5
62.5°	124.6	118.4	112.2	103.8	101.8	97.6	91.4	85.2	81.0	78.9	74.8
65°	101.8	95.5	91.4	85.2	81.0	78.9	72.7	68.5	64.4	60.2	56.1
67.5°	83.1	78.9	74.8	68.5	64.4	62.3	56.1	51.9	49.8	45.7	43.6
70°	66.5	62.3	58.2	54.0	49.8	47.8	43.6	39.5	37.4	33.2	31.2
72.5°	51.9	47.8	45.7	39.5	37.4	35.3	31.2	29.1	27.0	24.9	22.8
75°	39.5	37.4	33.2	29.1	27.0	27.0	22.8	20.8	18.7	16.6	14.5
77.5°	29.1	27.0	22.8	20.8	18.7	18.7	16.6	14.5	12.5	10.4	10.4
80°	20.8	16.6	14.5	12.5	12.5	10.4	10.4	8.3	6.2	6.2	4.2
82.5°	12.5	10.4	8.3	8.3	6.2	6.2	6.2	4.2	4.2	2.1	2.1
85°	6.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	999.0	996.9	996.9	996.9	994.8	994.8	992.8	992.8	990.7	990.7	990.7
5°	986.5	984.4	982.4	980.3	980.3	978.2	976.1	976.1	974.1	972.0	969.9
7.5°	967.8	965.8	963.7	959.5	957.4	955.4	953.3	949.1	947.1	945.0	945.0
10°	942.9	938.8	934.6	932.5	932.5	926.3	924.2	922.1	918.0	915.9	911.8
12.5°	911.8	907.6	903.4	899.3	897.2	893.1	891.0	886.8	882.7	878.5	874.4
15°	878.5	872.3	866.1	864.0	859.8	857.8	851.5	845.3	843.2	839.1	837.0
17.5°	837.0	828.7	826.6	822.4	818.3	814.1	810.0	803.8	797.5	795.4	789.2
20°	793.4	787.1	778.8	776.8	772.6	768.4	762.2	756.0	751.8	747.7	743.5
22.5°	745.6	741.4	731.1	729.0	724.8	718.6	712.4	706.1	704.1	697.8	693.7
25°	697.8	687.4	681.2	677.1	675.0	668.8	664.6	658.4	654.2	648.0	643.8
27.5°	643.8	637.6	631.4	625.1	623.1	618.9	612.7	606.5	602.3	596.1	591.9
30°	596.1	587.8	579.5	575.3	573.2	564.9	560.8	556.6	548.3	544.1	542.1
32.5°	542.1	533.8	527.5	527.5	521.3	517.1	508.8	504.7	502.6	494.3	490.1
35°	488.1	481.8	477.7	475.6	473.5	465.2	461.1	456.9	450.7	448.6	442.4
37.5°	434.1	425.8	421.6	419.5	417.5	415.4	413.3	407.1	402.9	398.8	394.6
40°	378.0	373.8	369.7	369.7	367.6	365.5	361.4	359.3	357.2	353.1	348.9
42.5°	330.2	324.0	321.9	319.8	319.8	315.7	315.7	313.6	311.5	307.4	303.2
45°	282.5	278.3	276.2	272.1	272.1	270.0	270.0	270.0	265.8	263.8	261.7
47.5°	240.9	236.8	234.7	232.6	230.5	228.5	228.5	228.5	224.3	224.3	220.2
50°	201.5	197.3	197.3	197.3	195.2	193.2	191.1	186.9	186.9	184.8	182.8
52.5°	170.3	166.2	164.1	162.0	162.0	159.9	157.8	155.8	151.6	149.5	147.5
55°	139.2	137.1	132.9	132.9	130.8	128.8	126.7	124.6	122.5	116.3	114.2
57.5°	114.2	110.1	108.0	105.9	105.9	103.8	99.7	97.6	93.5	89.3	85.2
60°	91.4	87.2	85.2	83.1	83.1	78.9	76.8	72.7	68.5	64.4	60.2
62.5°	70.6	68.5	64.4	62.3	62.3	60.2	56.1	51.9	47.8	43.6	37.4
65°	54.0	51.9	47.8	47.8	45.7	41.5	37.4	33.2	29.1	24.9	20.8
67.5°	39.5	37.4	35.3	33.2	31.2	27.0	22.8	18.7	14.5	10.4	6.2
70°	29.1	27.0	22.8	22.8	20.8	16.6	12.5	8.3	6.2	4.2	4.2
72.5°	18.7	16.6	14.5	12.5	10.4	8.3	4.2	2.1	2.1	2.1	2.1
75°	12.5	10.4	8.3	6.2	6.2	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	8.3	6.2	4.2	2.1	2.1	0.0	2.1	2.1	0.0	2.1	2.1
80°	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	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°	2.1	2.1	2.1	2.1	2.1	0.0	2.1	0.0	2.1	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: P238340

CATALOG NUMBER: PRS620D010-S6M12-61SWWH-3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	986.5
5°	967.8	967.8	967.8	967.8	965.8	965.8	965.8	965.8
7.5°	942.9	940.8	938.8	938.8	938.8	936.7	936.7	938.8
10°	909.7	909.7	907.6	907.6	905.5	905.5	905.5	903.4
12.5°	872.3	870.2	870.2	866.1	868.1	866.1	864.0	866.1
15°	830.8	828.7	826.6	826.6	826.6	824.5	824.5	826.6
17.5°	787.1	783.0	780.9	783.0	778.8	778.8	778.8	776.8
20°	739.4	735.2	733.1	733.1	731.1	729.0	729.0	729.0
22.5°	689.5	687.4	683.3	683.3	681.2	681.2	679.1	679.1
25°	641.8	635.5	635.5	633.5	629.3	631.4	627.2	627.2
27.5°	587.8	585.7	585.7	583.6	579.5	577.4	575.3	577.4
30°	537.9	533.8	531.7	529.6	529.6	529.6	527.5	525.5
32.5°	488.1	483.9	479.8	479.8	479.8	475.6	475.6	475.6
35°	438.2	436.1	432.0	429.9	429.9	427.8	425.8	423.7
37.5°	390.5	386.3	384.2	380.1	380.1	375.9	373.8	375.9
40°	342.7	338.5	336.5	336.5	332.3	328.1	328.1	328.1
42.5°	299.1	292.8	292.8	288.7	284.5	282.5	278.3	280.4
45°	257.5	251.3	249.2	249.2	240.9	238.8	236.8	236.8
47.5°	216.0	213.9	209.8	205.6	199.4	193.2	191.1	191.1
50°	178.6	172.4	170.3	168.2	159.9	155.8	151.6	151.6
52.5°	143.3	137.1	132.9	130.8	124.6	118.4	116.3	114.2
55°	110.1	103.8	101.8	99.7	91.4	87.2	83.1	81.0
57.5°	81.0	76.8	72.7	68.5	62.3	58.2	54.0	51.9
60°	56.1	49.8	47.8	45.7	39.5	35.3	31.2	31.2
62.5°	35.3	29.1	27.0	24.9	20.8	16.6	16.6	16.6
65°	14.5	10.4	10.4	10.4	8.3	8.3	8.3	8.3
67.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	2.1	2.1	2.1	0.0	0.0	2.1	2.1
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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