

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: P238325

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238325
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: PRS620D010-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: 1533.6 lumens
Efficiency: N/A
Efficacy: 76.7 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

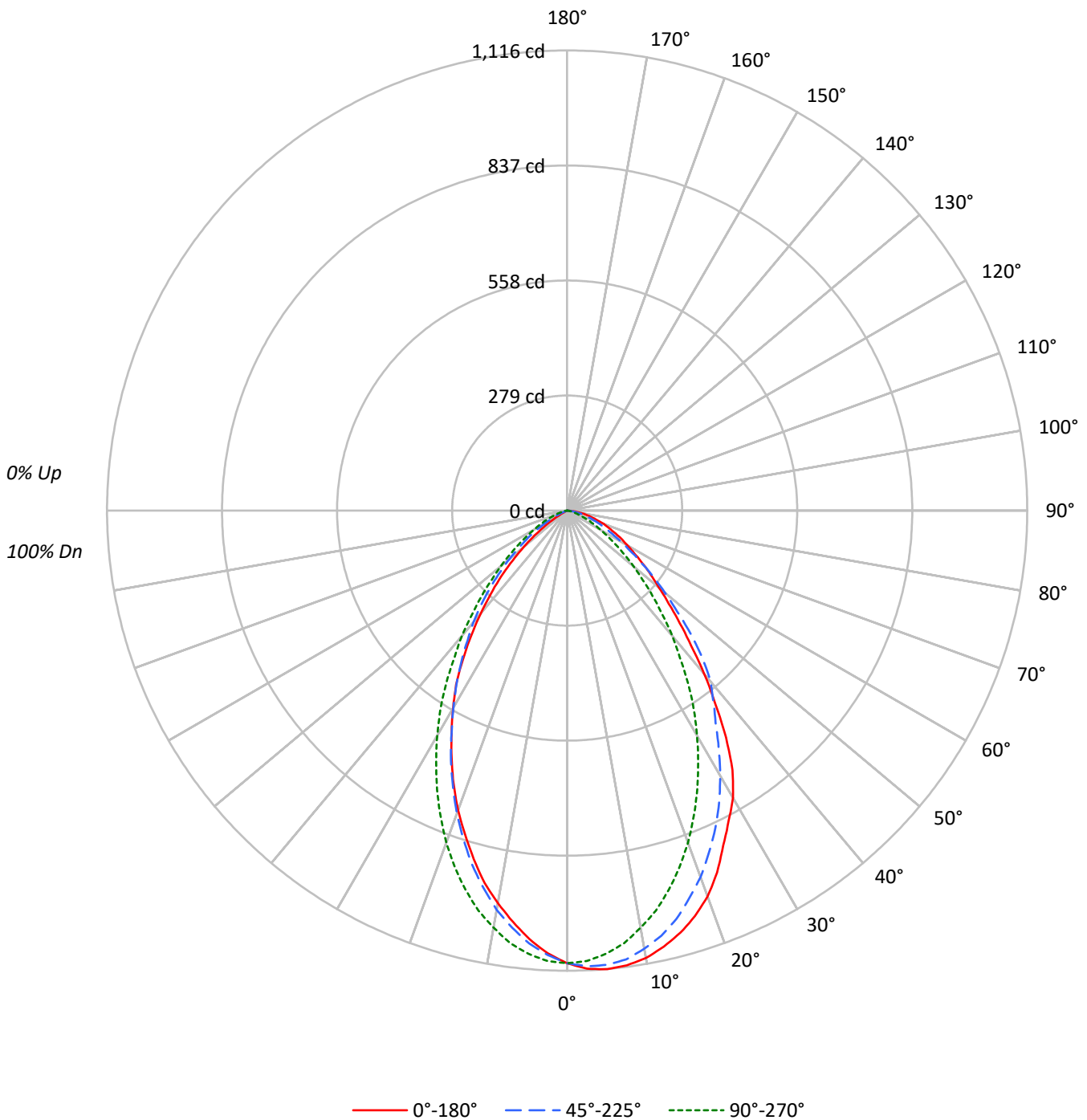
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	47262	47262	47262
5°	48251	46630	45105
10°	48171	44900	42264
15°	47258	42439	39012
20°	45626	39244	35432
25°	42566	35454	31506
30°	39997	31316	27493
35°	35295	26880	23164
40°	29092	22319	18345
45°	23546	17847	13798
50°	19492	14066	9190
55°	16695	10764	4992
60°	14501	8060	1429
65°	12918	5929	0
70°	11783	3928	0
75°	10031	2429	0
80°	8753	1537	0
85°	6175	1037	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	6.6
10°-20°	268.2	17.5
20°-30°	348.4	22.7
30°-40°	334.9	21.8
40°-50°	246.5	16.1
50°-60°	141.5	9.2
60°-70°	64.1	4.2
70°-80°	23.9	1.6
80°-90°	4.6	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°	718.2	46.8
0°-40°	1053.1	68.7
0°-60°	1441.0	94.0
0°-90°	1533.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1533.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1098	1098	1098	1098	1098	
5°	1116	1106	1079	1054	1044	106
15°	1060	1025	952	890	875	298
25°	896	850	746	667	663	413
35°	672	628	511	447	441	416
45°	387	424	293	262	227	302
55°	222	218	143	116	66	201
65°	127	102	58	25	0	127
75°	60	42	15	0	0	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°	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7
2.5°	1112.2	1112.2	1112.2	1110.1	1110.1	1112.2	1110.1	1110.1	1108.0	1108.0	1106.0
5°	1116.4	1116.4	1116.4	1116.4	1114.3	1114.3	1114.3	1112.2	1110.1	1108.0	1106.0
7.5°	1112.2	1112.2	1112.2	1112.2	1110.1	1110.1	1108.0	1106.0	1103.9	1099.7	1097.7
10°	1101.8	1101.8	1101.8	1099.7	1097.7	1095.6	1095.6	1091.4	1087.3	1083.1	1078.9
12.5°	1083.1	1083.1	1081.0	1081.0	1076.9	1076.9	1074.8	1070.6	1066.5	1062.3	1056.1
15°	1060.2	1058.2	1058.2	1056.1	1051.9	1049.8	1047.8	1041.5	1035.3	1029.1	1024.9
17.5°	1031.1	1029.1	1027.0	1024.9	1018.7	1014.5	1012.4	1006.2	999.9	993.7	985.4
20°	995.8	993.7	991.6	987.5	983.3	979.2	975.0	968.8	960.4	952.1	945.9
22.5°	950.1	948.0	945.9	943.8	937.6	933.4	931.3	925.1	916.8	908.5	898.1
25°	896.0	896.0	898.1	891.8	887.7	883.5	883.5	877.3	869.0	858.6	850.3
27.5°	848.2	848.2	844.0	839.9	833.6	829.5	827.4	821.2	817.0	808.7	798.3
30°	804.5	802.5	798.3	794.1	787.9	781.7	775.4	767.1	758.8	750.5	742.2
32.5°	746.3	744.2	744.2	744.2	738.0	735.9	731.8	721.4	711.0	696.4	684.0
35°	671.5	669.4	667.3	669.4	673.6	675.6	677.7	673.6	663.2	646.5	627.8
37.5°	590.4	592.5	594.6	596.6	602.9	607.0	605.0	613.3	611.2	600.8	582.1
40°	517.6	517.6	519.7	526.0	532.2	534.3	536.4	544.7	544.7	546.7	540.5
42.5°	444.9	451.1	453.2	457.4	463.6	467.8	471.9	480.2	482.3	490.6	486.5
45°	386.7	390.8	395.0	399.1	405.4	409.5	411.6	417.9	424.1	428.3	424.1
47.5°	334.7	336.8	338.9	343.0	349.3	351.3	355.5	361.7	368.0	365.9	361.7
50°	291.0	293.1	293.1	299.4	303.5	305.6	305.6	313.9	313.9	313.9	309.8
52.5°	255.7	255.7	257.8	259.9	264.0	264.0	268.2	272.3	268.2	266.1	261.9
55°	222.4	222.4	224.5	226.6	226.6	228.7	230.8	230.8	226.6	222.4	218.3
57.5°	193.3	195.4	195.4	197.5	199.6	197.5	199.6	195.4	191.3	187.1	180.9
60°	168.4	170.5	170.5	172.5	172.5	172.5	170.5	166.3	160.1	155.9	149.7
62.5°	147.6	147.6	147.6	147.6	147.6	147.6	145.5	141.4	135.1	131.0	124.7
65°	126.8	126.8	126.8	126.8	124.7	124.7	122.7	118.5	112.3	108.1	101.9
67.5°	108.1	108.1	108.1	108.1	106.0	103.9	101.9	99.8	93.6	89.4	85.2
70°	93.6	91.5	91.5	89.4	87.3	85.2	85.2	81.1	76.9	72.8	68.6
72.5°	74.8	74.8	74.8	74.8	70.7	70.7	68.6	64.4	60.3	58.2	54.1
75°	60.3	60.3	60.3	58.2	56.1	56.1	54.1	52.0	47.8	45.7	41.6
77.5°	47.8	47.8	47.8	45.7	43.7	41.6	41.6	39.5	35.3	33.3	31.2
80°	35.3	35.3	33.3	31.2	31.2	29.1	29.1	27.0	24.9	22.9	20.8
82.5°	22.9	22.9	22.9	20.8	20.8	18.7	18.7	18.7	16.6	14.6	12.5
85°	12.5	12.5	12.5	10.4	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	4.2	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7
2.5°	1106.0	1103.9	1101.8	1101.8	1099.7	1099.7	1097.7	1095.6	1093.5	1093.5	1091.4
5°	1103.9	1101.8	1097.7	1095.6	1093.5	1091.4	1089.3	1085.2	1083.1	1078.9	1076.9
7.5°	1093.5	1089.3	1085.2	1081.0	1078.9	1076.9	1070.6	1066.5	1062.3	1058.2	1054.0
10°	1074.8	1070.6	1064.4	1060.2	1056.1	1051.9	1047.8	1039.4	1033.2	1027.0	1020.7
12.5°	1049.8	1043.6	1037.4	1029.1	1027.0	1022.8	1016.6	1008.3	1002.0	993.7	985.4
15°	1018.7	1008.3	1004.1	993.7	989.6	985.4	979.2	970.8	962.5	952.1	943.8
17.5°	977.1	966.7	962.5	952.1	948.0	943.8	933.4	925.1	916.8	906.4	896.0
20°	935.5	927.2	916.8	906.4	902.2	898.1	885.6	877.3	869.0	856.5	848.2
22.5°	887.7	877.3	866.9	858.6	852.3	848.2	837.8	827.4	814.9	802.5	792.1
25°	839.9	827.4	817.0	806.6	798.3	794.1	781.7	769.2	756.7	746.3	733.8
27.5°	785.8	775.4	763.0	748.4	742.2	735.9	723.5	708.9	698.5	688.1	675.6
30°	729.7	719.3	704.7	692.3	686.0	679.8	667.3	654.9	644.5	629.9	617.4
32.5°	673.6	663.2	650.7	638.2	634.1	625.7	611.2	600.8	586.2	571.7	561.3
35°	619.5	611.2	598.7	584.2	573.8	565.5	550.9	534.3	521.8	511.4	501.0
37.5°	569.6	557.1	540.5	521.8	511.4	503.1	484.4	471.9	461.5	449.0	444.9
40°	517.6	496.9	478.1	459.4	451.1	440.7	426.2	413.7	405.4	397.1	386.7
42.5°	467.8	440.7	419.9	403.3	392.9	386.7	370.0	361.7	351.3	340.9	336.8
45°	411.6	390.8	365.9	349.3	340.9	334.7	320.1	309.8	299.4	293.1	286.9
47.5°	355.5	338.9	316.0	297.3	291.0	284.8	274.4	261.9	253.6	247.4	241.2
50°	299.4	286.9	274.4	253.6	247.4	245.3	232.8	222.4	214.1	210.0	203.7
52.5°	253.6	243.2	230.8	216.2	210.0	203.7	195.4	185.0	180.9	174.6	170.5
55°	210.0	199.6	193.3	182.9	174.6	170.5	162.2	155.9	149.7	143.4	139.3
57.5°	172.5	166.3	160.1	151.8	147.6	143.4	135.1	128.9	122.7	116.4	112.3
60°	143.4	137.2	131.0	124.7	120.6	118.5	110.2	103.9	97.7	93.6	89.4
62.5°	118.5	114.3	108.1	101.9	97.7	95.6	89.4	83.2	76.9	74.8	70.7
65°	97.7	93.6	87.3	81.1	81.1	76.9	70.7	66.5	62.4	58.2	54.1
67.5°	81.1	74.8	70.7	66.5	62.4	60.3	56.1	52.0	47.8	43.7	41.6
70°	64.4	60.3	56.1	49.9	47.8	45.7	41.6	37.4	35.3	31.2	29.1
72.5°	49.9	45.7	41.6	37.4	35.3	33.3	31.2	27.0	24.9	22.9	20.8
75°	39.5	35.3	31.2	27.0	27.0	24.9	22.9	18.7	16.6	14.6	14.6
77.5°	27.0	24.9	22.9	18.7	18.7	16.6	14.6	12.5	12.5	10.4	8.3
80°	18.7	16.6	14.6	12.5	10.4	10.4	8.3	8.3	6.2	6.2	4.2
82.5°	12.5	10.4	8.3	6.2	6.2	6.2	4.2	4.2	4.2	2.1	2.1
85°	6.2	4.2	4.2	2.1	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°	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7
2.5°	1089.3	1087.3	1085.2	1085.2	1085.2	1083.1	1081.0	1078.9	1078.9	1076.9	1076.9
5°	1072.7	1068.5	1066.5	1064.4	1064.4	1060.2	1058.2	1056.1	1054.0	1051.9	1049.8
7.5°	1047.8	1043.6	1039.4	1035.3	1035.3	1031.1	1027.0	1024.9	1020.7	1018.7	1016.6
10°	1016.6	1012.4	1006.2	1002.0	997.9	995.8	989.6	985.4	983.3	977.1	975.0
12.5°	977.1	970.8	964.6	960.4	958.4	952.1	945.9	943.8	937.6	933.4	931.3
15°	935.5	927.2	918.9	916.8	912.6	906.4	900.2	893.9	889.8	883.5	883.5
17.5°	887.7	877.3	871.1	864.8	862.7	854.4	846.1	842.0	835.7	831.6	829.5
20°	835.7	825.3	817.0	812.8	806.6	800.4	792.1	787.9	781.7	777.5	775.4
22.5°	779.6	767.1	758.8	754.6	750.5	740.1	733.8	729.7	723.5	719.3	717.2
25°	721.4	713.1	702.7	696.4	692.3	681.9	675.6	671.5	667.3	663.2	661.1
27.5°	663.2	650.7	640.3	636.1	632.0	625.7	615.4	609.1	607.0	605.0	602.9
30°	605.0	594.6	584.2	577.9	571.7	565.5	559.2	553.0	550.9	546.7	542.6
32.5°	550.9	540.5	530.1	526.0	521.8	511.4	505.2	501.0	498.9	490.6	488.5
35°	494.8	486.5	480.2	476.1	474.0	465.7	461.5	451.1	447.0	442.8	440.7
37.5°	436.6	428.3	422.0	422.0	417.9	413.7	409.5	405.4	397.1	395.0	392.9
40°	380.4	374.2	370.0	365.9	365.9	363.8	359.6	359.6	353.4	349.3	343.0
42.5°	328.5	324.3	320.1	320.1	318.1	316.0	311.8	311.8	307.7	303.5	297.3
45°	280.7	274.4	272.3	272.3	270.3	268.2	266.1	266.1	261.9	257.8	253.6
47.5°	237.0	232.8	230.8	228.7	226.6	226.6	224.5	222.4	220.4	216.2	212.0
50°	199.6	195.4	193.3	191.3	191.3	189.2	187.1	182.9	182.9	176.7	172.5
52.5°	166.3	164.2	160.1	158.0	155.9	153.8	151.8	149.7	145.5	141.4	139.3
55°	135.1	131.0	128.9	126.8	124.7	122.7	120.6	118.5	116.4	110.2	106.0
57.5°	108.1	103.9	101.9	101.9	99.8	95.6	93.6	91.5	87.3	83.2	76.9
60°	85.2	83.2	79.0	79.0	76.9	72.8	70.7	66.5	62.4	56.1	52.0
62.5°	66.5	64.4	60.3	58.2	58.2	54.1	49.9	45.7	41.6	37.4	31.2
65°	49.9	47.8	45.7	43.7	41.6	37.4	33.3	29.1	24.9	18.7	12.5
67.5°	37.4	35.3	31.2	31.2	29.1	24.9	20.8	16.6	10.4	6.2	2.1
70°	27.0	24.9	20.8	18.7	18.7	14.6	10.4	6.2	0.0	0.0	0.0
72.5°	18.7	16.6	12.5	10.4	10.4	6.2	2.1	0.0	0.0	0.0	0.0
75°	12.5	10.4	6.2	6.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.1	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	0.0	0.0	0.0	2.1	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: P238325

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7
2.5°	1076.9	1074.8	1074.8	1074.8	1072.7	1074.8	1074.8	1074.8
5°	1047.8	1047.8	1045.7	1045.7	1045.7	1043.6	1043.6	1043.6
7.5°	1012.4	1012.4	1010.3	1010.3	1010.3	1008.3	1006.2	1006.2
10°	972.9	972.9	970.8	970.8	970.8	968.8	966.7	966.7
12.5°	927.2	927.2	927.2	925.1	925.1	925.1	923.0	925.1
15°	881.4	879.4	879.4	877.3	875.2	875.2	875.2	875.2
17.5°	827.4	825.3	825.3	823.2	825.3	823.2	823.2	823.2
20°	771.3	771.3	771.3	771.3	771.3	771.3	773.3	773.3
22.5°	717.2	715.1	717.2	715.1	715.1	717.2	717.2	719.3
25°	661.1	659.0	659.0	661.1	661.1	661.1	663.2	663.2
27.5°	598.7	602.9	602.9	605.0	605.0	607.0	609.1	607.0
30°	544.7	544.7	544.7	546.7	548.8	550.9	553.0	553.0
32.5°	486.5	488.5	490.6	488.5	490.6	494.8	498.9	501.0
35°	438.6	434.5	432.4	432.4	434.5	436.6	438.6	440.7
37.5°	386.7	384.6	382.5	378.4	380.4	382.5	382.5	382.5
40°	338.9	334.7	332.6	330.5	328.5	326.4	326.4	326.4
42.5°	293.1	289.0	284.8	284.8	278.6	276.5	276.5	274.4
45°	249.5	245.3	241.2	241.2	234.9	228.7	226.6	226.6
47.5°	207.9	201.7	199.6	197.5	191.3	185.0	180.9	178.8
50°	168.4	162.2	160.1	158.0	151.8	143.4	139.3	137.2
52.5°	133.0	126.8	122.7	120.6	112.3	106.0	101.9	99.8
55°	99.8	95.6	91.5	89.4	81.1	72.8	66.5	66.5
57.5°	72.8	64.4	62.4	60.3	52.0	45.7	39.5	37.4
60°	47.8	39.5	37.4	35.3	27.0	20.8	18.7	16.6
62.5°	24.9	18.7	16.6	14.6	10.4	6.2	4.2	4.2
65°	8.3	2.1	2.1	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)