

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: P238341

Luminaire Tested: **PRS630D010-S6M24-61SWWH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238341
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: PRS630D010-S6M24-61SWWH-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: 1800.5 lumens
Efficiency: N/A
Efficacy: 70.6 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

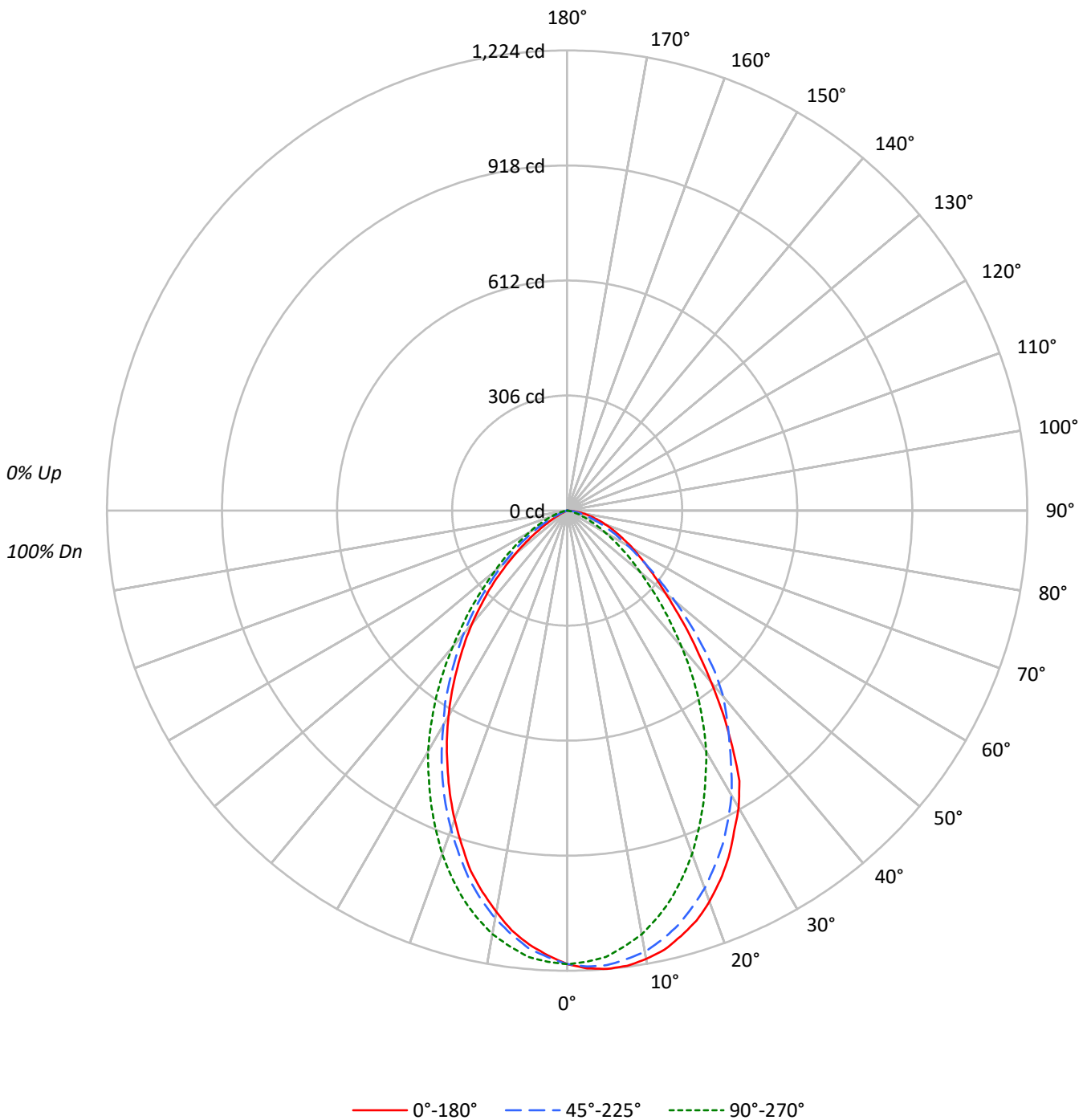
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238341

CATALOG NUMBER: PRS630D010-S6M24-61SWWH-3000K

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°	51938	51938	51938
5°	52888	51488	50088
10°	52958	50016	47401
15°	52215	47659	44213
20°	50703	44536	40082
25°	48310	40732	35758
30°	45351	36800	31351
35°	40215	31962	26722
40°	33481	26613	22134
45°	27620	21549	17299
50°	22868	16860	12184
55°	19645	13287	7296
60°	17386	10084	3221
65°	15231	7366	1019
70°	13810	5023	629
75°	12027	3310	416
80°	10513	1860	0
85°	7410	1235	0



TEST NUMBER: P238341

CATALOG NUMBER: PRS630D010-S6M24-61SWWH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	6.2
10°-20°	301.3	16.7
20°-30°	401.6	22.3
30°-40°	396.4	22.0
40°-50°	297.2	16.5
50°-60°	174.4	9.7
60°-70°	81.2	4.5
70°-80°	30.5	1.7
80°-90°	5.8	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°	815.0	45.3
0°-40°	1211.4	67.3
0°-60°	1683.1	93.5
0°-90°	1800.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1206	1206	1206	1206	1206	
5°	1224	1214	1191	1169	1159	116
15°	1171	1142	1069	1012	992	329
25°	1017	980	857	785	753	466
35°	765	753	608	541	508	475
45°	454	508	354	319	284	352
55°	262	267	177	147	97	237
65°	150	130	72	35	10	151
75°	72	52	20	2	2	78
85°	15	8	2	0	0	18
90°	0	0	0	0	0	



TEST NUMBER: P238341

CATALOG NUMBER: PRS630D010-S6M24-61SWWH-3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3
2.5°	1218.7	1218.7	1218.7	1218.7	1216.3	1216.3	1216.3	1216.3	1216.3	1213.8	1213.8
5°	1223.7	1223.7	1221.2	1221.2	1221.2	1221.2	1218.7	1218.7	1216.3	1216.3	1213.8
7.5°	1221.2	1218.7	1218.7	1218.7	1216.3	1216.3	1216.3	1213.8	1211.3	1208.8	1203.8
10°	1211.3	1211.3	1211.3	1208.8	1206.3	1206.3	1206.3	1201.3	1198.8	1193.8	1191.3
12.5°	1196.3	1193.8	1193.8	1191.3	1188.8	1188.8	1186.3	1181.4	1178.9	1173.9	1168.9
15°	1171.4	1171.4	1171.4	1168.9	1166.4	1163.9	1161.4	1158.9	1153.9	1149.0	1141.5
17.5°	1144.0	1141.5	1141.5	1139.0	1134.0	1134.0	1131.5	1126.5	1121.5	1116.6	1106.6
20°	1106.6	1106.6	1106.6	1104.1	1101.6	1096.6	1096.6	1089.1	1084.2	1076.7	1069.2
22.5°	1064.2	1064.2	1064.2	1061.7	1059.2	1056.7	1054.3	1049.3	1041.8	1034.3	1024.3
25°	1016.9	1014.4	1014.4	1014.4	1011.9	1009.4	1006.9	1001.9	996.9	989.5	979.5
27.5°	962.0	959.5	959.5	959.5	957.1	954.6	952.1	952.1	947.1	937.1	927.1
30°	912.2	912.2	912.2	907.2	902.2	899.7	899.7	894.7	887.3	882.3	874.8
32.5°	852.4	852.4	854.9	852.4	852.4	852.4	847.4	842.4	832.4	825.0	812.5
35°	765.1	770.1	772.6	777.6	782.6	787.6	790.1	790.1	780.1	767.6	752.7
37.5°	680.4	682.9	685.4	695.4	700.3	705.3	707.8	717.8	725.3	712.8	697.9
40°	595.7	598.2	605.6	608.1	620.6	623.1	630.6	640.5	650.5	653.0	645.5
42.5°	518.4	520.9	525.9	530.9	543.3	550.8	553.3	560.8	573.2	583.2	580.7
45°	453.6	453.6	456.1	463.6	471.0	476.0	483.5	493.5	503.5	508.4	508.4
47.5°	391.3	391.3	393.8	401.3	411.2	411.2	416.2	426.2	438.6	438.6	438.6
50°	341.4	343.9	343.9	348.9	353.9	356.4	361.4	371.4	376.3	376.3	373.8
52.5°	299.1	299.1	301.6	304.1	306.6	311.5	311.5	316.5	321.5	321.5	316.5
55°	261.7	261.7	261.7	264.2	266.7	269.2	271.7	274.2	271.7	269.2	266.7
57.5°	229.3	229.3	229.3	229.3	231.8	234.3	234.3	234.3	231.8	229.3	221.8
60°	201.9	201.9	201.9	201.9	201.9	201.9	201.9	199.4	194.4	191.9	186.9
62.5°	174.5	174.5	174.5	174.5	174.5	174.5	172.0	169.5	167.0	159.5	154.5
65°	149.5	152.0	152.0	149.5	149.5	147.0	147.0	142.1	139.6	134.6	129.6
67.5°	129.6	129.6	129.6	129.6	127.1	124.6	124.6	119.6	117.1	112.2	104.7
70°	109.7	109.7	107.2	107.2	107.2	104.7	102.2	99.7	94.7	89.7	84.7
72.5°	89.7	89.7	89.7	89.7	84.7	84.7	82.2	79.8	74.8	72.3	67.3
75°	72.3	72.3	72.3	69.8	69.8	67.3	64.8	62.3	59.8	54.8	52.3
77.5°	57.3	57.3	57.3	54.8	52.3	52.3	49.8	47.4	44.9	42.4	37.4
80°	42.4	42.4	39.9	39.9	37.4	37.4	37.4	34.9	32.4	29.9	27.4
82.5°	27.4	27.4	27.4	27.4	24.9	24.9	22.4	22.4	19.9	17.4	17.4
85°	15.0	15.0	15.0	15.0	12.5	12.5	12.5	12.5	10.0	10.0	7.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	5.0	2.5	2.5	2.5	2.5
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: P238341

CATALOG NUMBER: PRS630D010-S6M24-61SWWH-3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3
2.5°	1211.3	1211.3	1208.8	1208.8	1208.8	1206.3	1206.3	1203.8	1203.8	1201.3	1201.3
5°	1211.3	1208.8	1206.3	1203.8	1201.3	1201.3	1198.8	1193.8	1191.3	1191.3	1186.3
7.5°	1201.3	1198.8	1193.8	1191.3	1188.8	1186.3	1181.4	1178.9	1173.9	1168.9	1166.4
10°	1186.3	1181.4	1173.9	1168.9	1168.9	1163.9	1158.9	1153.9	1146.5	1144.0	1136.5
12.5°	1161.4	1153.9	1149.0	1144.0	1139.0	1136.5	1129.0	1124.0	1114.1	1109.1	1101.6
15°	1134.0	1126.5	1119.1	1109.1	1106.6	1101.6	1094.1	1084.2	1079.2	1069.2	1061.7
17.5°	1101.6	1089.1	1081.7	1071.7	1066.7	1061.7	1049.3	1041.8	1034.3	1021.9	1014.4
20°	1059.2	1049.3	1039.3	1026.8	1021.9	1014.4	1004.4	991.9	982.0	972.0	962.0
22.5°	1014.4	1004.4	991.9	979.5	972.0	964.5	952.1	939.6	927.1	914.7	907.2
25°	964.5	952.1	939.6	927.1	917.2	912.2	897.2	884.8	869.8	857.4	847.4
27.5°	914.7	902.2	887.3	869.8	859.9	854.9	839.9	822.5	807.5	797.5	785.1
30°	859.9	844.9	827.5	812.5	802.5	795.1	782.6	765.1	752.7	740.2	722.8
32.5°	800.0	785.1	772.6	752.7	745.2	737.7	720.3	702.8	685.4	672.9	663.0
35°	740.2	730.3	715.3	695.4	682.9	672.9	650.5	635.5	620.6	608.1	598.2
37.5°	685.4	670.4	645.5	623.1	613.1	605.6	580.7	565.8	548.3	540.8	525.9
40°	625.6	603.1	580.7	558.3	548.3	538.3	520.9	498.5	486.0	473.5	463.6
42.5°	565.8	535.9	513.4	493.5	481.0	471.0	451.1	433.7	418.7	411.2	401.3
45°	498.5	476.0	451.1	428.7	421.2	408.7	391.3	376.3	363.9	353.9	346.4
47.5°	428.7	416.2	391.3	371.4	361.4	351.4	336.5	321.5	309.0	299.1	294.1
50°	366.4	356.4	339.0	316.5	309.0	299.1	284.1	274.2	261.7	251.7	246.7
52.5°	309.0	299.1	286.6	269.2	259.2	254.2	239.3	229.3	221.8	214.3	206.9
55°	259.2	249.2	239.3	224.3	216.8	209.4	199.4	189.4	181.9	177.0	172.0
57.5°	216.8	206.9	196.9	186.9	179.4	174.5	164.5	159.5	152.0	144.6	142.1
60°	179.4	172.0	164.5	154.5	149.5	142.1	134.6	127.1	122.1	117.1	112.2
62.5°	149.5	142.1	134.6	124.6	122.1	117.1	109.7	102.2	97.2	94.7	89.7
65°	122.1	114.6	109.7	102.2	97.2	94.7	87.2	82.2	77.3	72.3	67.3
67.5°	99.7	94.7	89.7	82.2	77.3	74.8	67.3	62.3	59.8	54.8	52.3
70°	79.8	74.8	69.8	64.8	59.8	57.3	52.3	47.4	44.9	39.9	37.4
72.5°	62.3	57.3	54.8	47.4	44.9	42.4	37.4	34.9	32.4	29.9	27.4
75°	47.4	44.9	39.9	34.9	32.4	32.4	27.4	24.9	22.4	19.9	17.4
77.5°	34.9	32.4	27.4	24.9	22.4	22.4	19.9	17.4	15.0	12.5	12.5
80°	24.9	19.9	17.4	15.0	15.0	12.5	12.5	10.0	7.5	7.5	5.0
82.5°	15.0	12.5	10.0	10.0	7.5	7.5	7.5	5.0	5.0	2.5	2.5
85°	7.5	5.0	5.0	5.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P238341

CATALOG NUMBER: PRS630D010-S6M24-61SWWH-3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3
2.5°	1198.8	1196.3	1196.3	1196.3	1193.8	1193.8	1191.3	1191.3	1188.8	1188.8	1188.8
5°	1183.9	1181.4	1178.9	1176.4	1176.4	1173.9	1171.4	1171.4	1168.9	1166.4	1163.9
7.5°	1161.4	1158.9	1156.4	1151.5	1149.0	1146.5	1144.0	1139.0	1136.5	1134.0	1134.0
10°	1131.5	1126.5	1121.5	1119.1	1119.1	1111.6	1109.1	1106.6	1101.6	1099.1	1094.1
12.5°	1094.1	1089.1	1084.2	1079.2	1076.7	1071.7	1069.2	1064.2	1059.2	1054.3	1049.3
15°	1054.3	1046.8	1039.3	1036.8	1031.8	1029.3	1021.9	1014.4	1011.9	1006.9	1004.4
17.5°	1004.4	994.4	991.9	987.0	982.0	977.0	972.0	964.5	957.1	954.6	947.1
20°	952.1	944.6	934.6	932.1	927.1	922.2	914.7	907.2	902.2	897.2	892.3
22.5°	894.7	889.8	877.3	874.8	869.8	862.3	854.9	847.4	844.9	837.4	832.4
25°	837.4	825.0	817.5	812.5	810.0	802.5	797.5	790.1	785.1	777.6	772.6
27.5°	772.6	765.1	757.7	750.2	747.7	742.7	735.2	727.8	722.8	715.3	710.3
30°	715.3	705.3	695.4	690.4	687.9	677.9	672.9	667.9	658.0	653.0	650.5
32.5°	650.5	640.5	633.1	633.1	625.6	620.6	610.6	605.6	603.1	593.2	588.2
35°	585.7	578.2	573.2	570.7	568.3	558.3	553.3	548.3	540.8	538.3	530.9
37.5°	520.9	510.9	505.9	503.5	501.0	498.5	496.0	488.5	483.5	478.5	473.5
40°	453.6	448.6	443.6	443.6	441.1	438.6	433.7	431.2	428.7	423.7	418.7
42.5°	396.3	388.8	386.3	383.8	383.8	378.8	378.8	376.3	373.8	368.9	363.9
45°	339.0	334.0	331.5	326.5	326.5	324.0	324.0	324.0	319.0	316.5	314.0
47.5°	289.1	284.1	281.6	279.1	276.6	274.2	274.2	274.2	269.2	269.2	264.2
50°	241.8	236.8	236.8	236.8	234.3	231.8	229.3	224.3	224.3	221.8	219.3
52.5°	204.4	199.4	196.9	194.4	194.4	191.9	189.4	186.9	181.9	179.4	177.0
55°	167.0	164.5	159.5	159.5	157.0	154.5	152.0	149.5	147.0	139.6	137.1
57.5°	137.1	132.1	129.6	127.1	127.1	124.6	119.6	117.1	112.2	107.2	102.2
60°	109.7	104.7	102.2	99.7	99.7	94.7	92.2	87.2	82.2	77.3	72.3
62.5°	84.7	82.2	77.3	74.8	74.8	72.3	67.3	62.3	57.3	52.3	44.9
65°	64.8	62.3	57.3	57.3	54.8	49.8	44.9	39.9	34.9	29.9	24.9
67.5°	47.4	44.9	42.4	39.9	37.4	32.4	27.4	22.4	17.4	12.5	7.5
70°	34.9	32.4	27.4	27.4	24.9	19.9	15.0	10.0	7.5	5.0	5.0
72.5°	22.4	19.9	17.4	15.0	12.5	10.0	5.0	2.5	2.5	2.5	2.5
75°	15.0	12.5	10.0	7.5	7.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	10.0	7.5	5.0	2.5	2.5	0.0	2.5	2.5	0.0	2.5	2.5
80°	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	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°	2.5	2.5	2.5	2.5	2.5	0.0	2.5	0.0	2.5	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: P238341

CATALOG NUMBER: PRS630D010-S6M24-61SWWH-3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3	1206.3
2.5°	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1186.3	1183.9
5°	1161.4	1161.4	1161.4	1161.4	1158.9	1158.9	1158.9	1158.9
7.5°	1131.5	1129.0	1126.5	1126.5	1126.5	1124.0	1124.0	1126.5
10°	1091.6	1091.6	1089.1	1089.1	1086.7	1086.7	1086.7	1084.2
12.5°	1046.8	1044.3	1044.3	1039.3	1041.8	1039.3	1036.8	1039.3
15°	996.9	994.4	991.9	991.9	991.9	989.5	989.5	991.9
17.5°	944.6	939.6	937.1	939.6	934.6	934.6	934.6	932.1
20°	887.3	882.3	879.8	879.8	877.3	874.8	874.8	874.8
22.5°	827.5	825.0	820.0	820.0	817.5	817.5	815.0	815.0
25°	770.1	762.7	762.7	760.2	755.2	757.7	752.7	752.7
27.5°	705.3	702.8	702.8	700.3	695.4	692.9	690.4	692.9
30°	645.5	640.5	638.0	635.5	635.5	635.5	633.1	630.6
32.5°	585.7	580.7	575.7	575.7	575.7	570.7	570.7	570.7
35°	525.9	523.4	518.4	515.9	515.9	513.4	510.9	508.4
37.5°	468.6	463.6	461.1	456.1	456.1	451.1	448.6	451.1
40°	411.2	406.2	403.8	403.8	398.8	393.8	393.8	393.8
42.5°	358.9	351.4	351.4	346.4	341.4	339.0	334.0	336.5
45°	309.0	301.6	299.1	299.1	289.1	286.6	284.1	284.1
47.5°	259.2	256.7	251.7	246.7	239.3	231.8	229.3	229.3
50°	214.3	206.9	204.4	201.9	191.9	186.9	181.9	181.9
52.5°	172.0	164.5	159.5	157.0	149.5	142.1	139.6	137.1
55°	132.1	124.6	122.1	119.6	109.7	104.7	99.7	97.2
57.5°	97.2	92.2	87.2	82.2	74.8	69.8	64.8	62.3
60°	67.3	59.8	57.3	54.8	47.4	42.4	37.4	37.4
62.5°	42.4	34.9	32.4	29.9	24.9	19.9	19.9	19.9
65°	17.4	12.5	12.5	12.5	10.0	10.0	10.0	10.0
67.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
70°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	2.5	2.5	2.5	0.0	0.0	2.5	2.5
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)