

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: P238326

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238326
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: PRS630D010-S6M24-61SWWC-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: 1840.4 lumens
Efficiency: N/A
Efficacy: 72.2 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

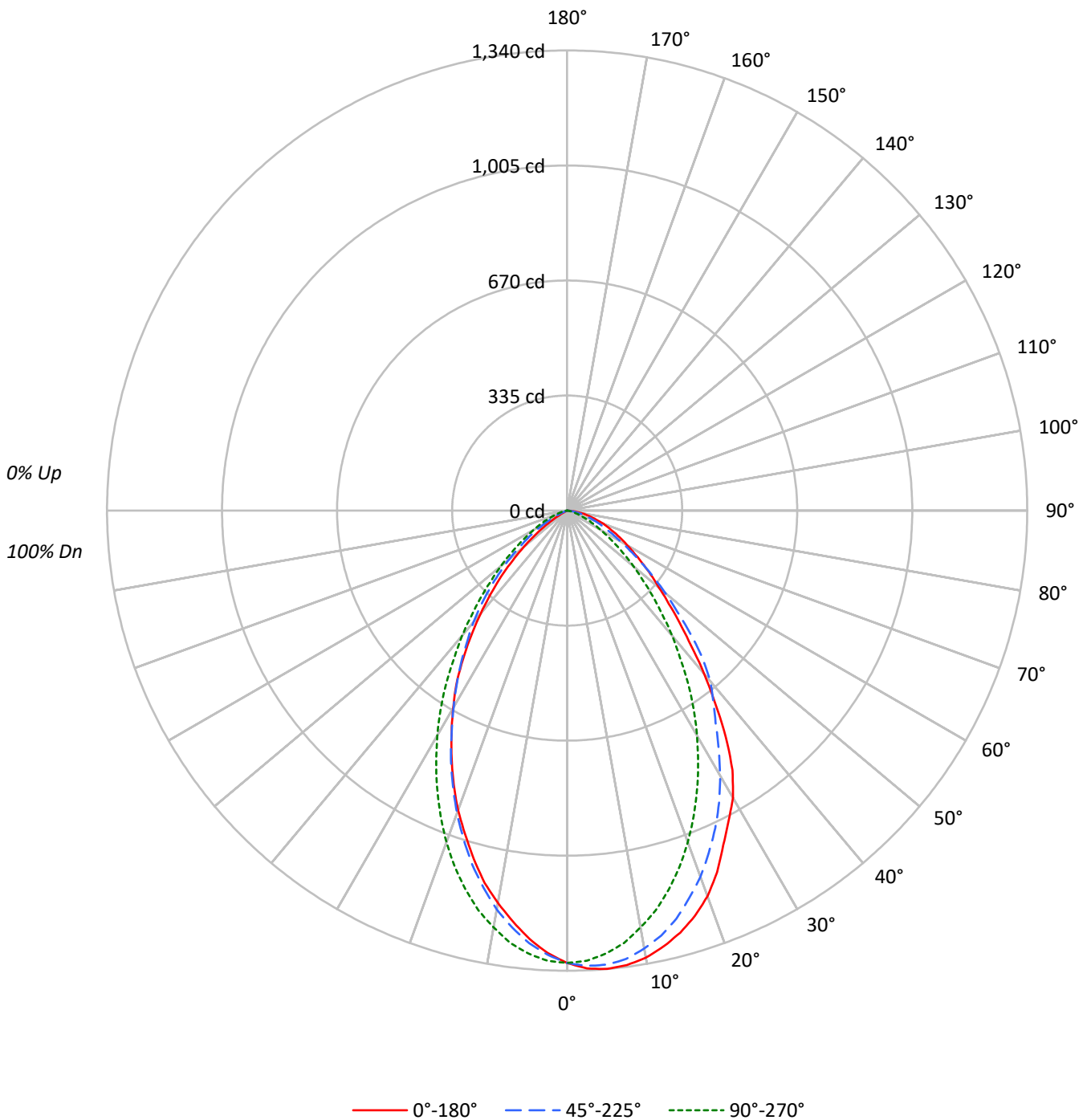
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56713	56713	56713
5°	57902	55961	54129
10°	57806	53880	50715
15°	56712	50931	46817
20°	54754	47093	42520
25°	51079	42547	37806
30°	48001	37581	32992
35°	42354	32257	27800
40°	34915	26782	22016
45°	28253	21421	16556
50°	23397	16880	11032
55°	20035	12919	5990
60°	17403	9670	1722
65°	15506	7121	0
70°	14137	4708	0
75°	12027	2911	0
80°	10513	1860	0
85°	7410	1235	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	6.6
10°-20°	321.9	17.5
20°-30°	418.1	22.7
30°-40°	401.9	21.8
40°-50°	295.8	16.1
50°-60°	169.8	9.2
60°-70°	76.9	4.2
70°-80°	28.7	1.6
80°-90°	5.5	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°	861.8	46.8
0°-40°	1263.7	68.7
0°-60°	1729.3	94.0
0°-90°	1840.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1317	1317	1317	1317	1317	
5°	1340	1327	1295	1265	1252	127
15°	1272	1230	1143	1068	1050	357
25°	1075	1020	896	801	796	496
35°	806	753	614	536	529	499
45°	464	509	352	314	272	362
55°	267	262	172	140	80	241
65°	152	122	70	30	0	152
75°	72	50	18	0	0	78
85°	15	8	2	0	0	18
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°	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2
2.5°	1334.7	1334.7	1334.7	1332.2	1332.2	1334.7	1332.2	1332.2	1329.7	1329.7	1327.2
5°	1339.7	1339.7	1339.7	1339.7	1337.2	1337.2	1337.2	1334.7	1332.2	1329.7	1327.2
7.5°	1334.7	1334.7	1334.7	1334.7	1332.2	1332.2	1329.7	1327.2	1324.7	1319.7	1317.2
10°	1322.2	1322.2	1322.2	1319.7	1317.2	1314.7	1314.7	1309.7	1304.7	1299.8	1294.8
12.5°	1299.8	1299.8	1297.3	1297.3	1292.3	1292.3	1289.8	1284.8	1279.8	1274.8	1267.3
15°	1272.3	1269.8	1269.8	1267.3	1262.3	1259.8	1257.3	1249.9	1242.4	1234.9	1229.9
17.5°	1237.4	1234.9	1232.4	1229.9	1222.4	1217.4	1214.9	1207.4	1200.0	1192.5	1182.5
20°	1195.0	1192.5	1190.0	1185.0	1180.0	1175.0	1170.0	1162.5	1152.6	1142.6	1135.1
22.5°	1140.1	1137.6	1135.1	1132.6	1125.1	1120.1	1117.6	1110.2	1100.2	1090.2	1077.7
25°	1075.2	1075.2	1077.7	1070.2	1065.2	1060.3	1060.3	1052.8	1042.8	1030.3	1020.3
27.5°	1017.8	1017.8	1012.9	1007.9	1000.4	995.4	992.9	985.4	980.4	970.4	958.0
30°	965.5	963.0	958.0	953.0	945.5	938.0	930.5	920.6	910.6	900.6	890.6
32.5°	895.6	893.1	893.1	893.1	885.6	883.1	878.1	865.7	853.2	835.7	820.8
35°	805.8	803.3	800.8	803.3	808.3	810.8	813.3	808.3	795.8	775.9	753.4
37.5°	708.5	711.0	713.5	716.0	723.5	728.5	726.0	735.9	733.5	721.0	698.5
40°	621.2	621.2	623.7	631.2	638.7	641.1	643.6	653.6	653.6	656.1	648.6
42.5°	533.9	541.4	543.9	548.8	556.3	561.3	566.3	576.3	578.8	588.8	583.8
45°	464.0	469.0	474.0	479.0	486.5	491.5	494.0	501.4	508.9	513.9	508.9
47.5°	401.7	404.1	406.6	411.6	419.1	421.6	426.6	434.1	441.6	439.1	434.1
50°	349.3	351.8	351.8	359.2	364.2	366.7	366.7	376.7	376.7	376.7	371.7
52.5°	306.9	306.9	309.3	311.8	316.8	316.8	321.8	326.8	321.8	319.3	314.3
55°	266.9	266.9	269.4	271.9	271.9	274.4	276.9	276.9	271.9	266.9	261.9
57.5°	232.0	234.5	234.5	237.0	239.5	237.0	239.5	234.5	229.5	224.5	217.0
60°	202.1	204.6	204.6	207.1	207.1	207.1	204.6	199.6	192.1	187.1	179.6
62.5°	177.1	177.1	177.1	177.1	177.1	177.1	174.6	169.6	162.2	157.2	149.7
65°	152.2	152.2	152.2	152.2	149.7	149.7	147.2	142.2	134.7	129.7	122.2
67.5°	129.7	129.7	129.7	129.7	127.2	124.7	122.2	119.7	112.3	107.3	102.3
70°	112.3	109.8	109.8	107.3	104.8	102.3	102.3	97.3	92.3	87.3	82.3
72.5°	89.8	89.8	89.8	89.8	84.8	84.8	82.3	77.3	72.3	69.9	64.9
75°	72.3	72.3	72.3	69.9	67.4	67.4	64.9	62.4	57.4	54.9	49.9
77.5°	57.4	57.4	57.4	54.9	52.4	49.9	49.9	47.4	42.4	39.9	37.4
80°	42.4	42.4	39.9	37.4	37.4	34.9	34.9	32.4	29.9	27.4	24.9
82.5°	27.4	27.4	27.4	24.9	24.9	22.5	22.5	22.5	20.0	17.5	15.0
85°	15.0	15.0	15.0	12.5	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	5.0	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2
2.5°	1327.2	1324.7	1322.2	1322.2	1319.7	1319.7	1317.2	1314.7	1312.2	1312.2	1309.7
5°	1324.7	1322.2	1317.2	1314.7	1312.2	1309.7	1307.2	1302.2	1299.8	1294.8	1292.3
7.5°	1312.2	1307.2	1302.2	1297.3	1294.8	1292.3	1284.8	1279.8	1274.8	1269.8	1264.8
10°	1289.8	1284.8	1277.3	1272.3	1267.3	1262.3	1257.3	1247.4	1239.9	1232.4	1224.9
12.5°	1259.8	1252.4	1244.9	1234.9	1232.4	1227.4	1219.9	1209.9	1202.5	1192.5	1182.5
15°	1222.4	1209.9	1205.0	1192.5	1187.5	1182.5	1175.0	1165.0	1155.1	1142.6	1132.6
17.5°	1172.5	1160.0	1155.1	1142.6	1137.6	1132.6	1120.1	1110.2	1100.2	1087.7	1075.2
20°	1122.6	1112.6	1100.2	1087.7	1082.7	1077.7	1062.8	1052.8	1042.8	1027.8	1017.8
22.5°	1065.2	1052.8	1040.3	1030.3	1022.8	1017.8	1005.4	992.9	977.9	963.0	950.5
25°	1007.9	992.9	980.4	968.0	958.0	953.0	938.0	923.1	908.1	895.6	880.6
27.5°	943.0	930.5	915.6	898.1	890.6	883.1	868.2	850.7	838.2	825.8	810.8
30°	875.7	863.2	845.7	830.7	823.3	815.8	800.8	785.8	773.4	755.9	740.9
32.5°	808.3	795.8	780.9	765.9	760.9	750.9	733.5	721.0	703.5	686.1	673.6
35°	743.4	733.5	718.5	701.0	688.5	678.6	661.1	641.1	626.2	613.7	601.2
37.5°	683.6	668.6	648.6	626.2	613.7	603.7	581.3	566.3	553.8	538.9	533.9
40°	621.2	596.2	573.8	551.3	541.4	528.9	511.4	496.5	486.5	476.5	464.0
42.5°	561.3	528.9	503.9	484.0	471.5	464.0	444.1	434.1	421.6	409.1	404.1
45°	494.0	469.0	439.1	419.1	409.1	401.7	384.2	371.7	359.2	351.8	344.3
47.5°	426.6	406.6	379.2	356.7	349.3	341.8	329.3	314.3	304.4	296.9	289.4
50°	359.2	344.3	329.3	304.4	296.9	294.4	279.4	266.9	257.0	252.0	244.5
52.5°	304.4	291.9	276.9	259.5	252.0	244.5	234.5	222.0	217.0	209.6	204.6
55°	252.0	239.5	232.0	219.5	209.6	204.6	194.6	187.1	179.6	172.1	167.1
57.5°	207.1	199.6	192.1	182.1	177.1	172.1	162.2	154.7	147.2	139.7	134.7
60°	172.1	164.7	157.2	149.7	144.7	142.2	132.2	124.7	117.3	112.3	107.3
62.5°	142.2	137.2	129.7	122.2	117.3	114.8	107.3	99.8	92.3	89.8	84.8
65°	117.3	112.3	104.8	97.3	97.3	92.3	84.8	79.8	74.8	69.9	64.9
67.5°	97.3	89.8	84.8	79.8	74.8	72.3	67.4	62.4	57.4	52.4	49.9
70°	77.3	72.3	67.4	59.9	57.4	54.9	49.9	44.9	42.4	37.4	34.9
72.5°	59.9	54.9	49.9	44.9	42.4	39.9	37.4	32.4	29.9	27.4	24.9
75°	47.4	42.4	37.4	32.4	32.4	29.9	27.4	22.5	20.0	17.5	17.5
77.5°	32.4	29.9	27.4	22.5	22.5	20.0	17.5	15.0	15.0	12.5	10.0
80°	22.5	20.0	17.5	15.0	12.5	12.5	10.0	10.0	7.5	7.5	5.0
82.5°	15.0	12.5	10.0	7.5	7.5	7.5	5.0	5.0	5.0	2.5	2.5
85°	7.5	5.0	5.0	2.5	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2
2.5°	1307.2	1304.7	1302.2	1302.2	1302.2	1299.8	1297.3	1294.8	1294.8	1292.3	1292.3
5°	1287.3	1282.3	1279.8	1277.3	1277.3	1272.3	1269.8	1267.3	1264.8	1262.3	1259.8
7.5°	1257.3	1252.4	1247.4	1242.4	1242.4	1237.4	1232.4	1229.9	1224.9	1222.4	1219.9
10°	1219.9	1214.9	1207.4	1202.5	1197.5	1195.0	1187.5	1182.5	1180.0	1172.5	1170.0
12.5°	1172.5	1165.0	1157.6	1152.6	1150.1	1142.6	1135.1	1132.6	1125.1	1120.1	1117.6
15°	1122.6	1112.6	1102.7	1100.2	1095.2	1087.7	1080.2	1072.7	1067.7	1060.3	1060.3
17.5°	1065.2	1052.8	1045.3	1037.8	1035.3	1025.3	1015.4	1010.4	1002.9	997.9	995.4
20°	1002.9	990.4	980.4	975.4	968.0	960.5	950.5	945.5	938.0	933.0	930.5
22.5°	935.5	920.6	910.6	905.6	900.6	888.1	880.6	875.7	868.2	863.2	860.7
25°	865.7	855.7	843.2	835.7	830.7	818.3	810.8	805.8	800.8	795.8	793.3
27.5°	795.8	780.9	768.4	763.4	758.4	750.9	738.4	731.0	728.5	726.0	723.5
30°	726.0	713.5	701.0	693.5	686.1	678.6	671.1	663.6	661.1	656.1	651.1
32.5°	661.1	648.6	636.2	631.2	626.2	613.7	606.2	601.2	598.7	588.8	586.3
35°	593.7	583.8	576.3	571.3	568.8	558.8	553.8	541.4	536.4	531.4	528.9
37.5°	523.9	513.9	506.4	506.4	501.4	496.5	491.5	486.5	476.5	474.0	471.5
40°	456.5	449.1	444.1	439.1	439.1	436.6	431.6	431.6	424.1	419.1	411.6
42.5°	394.2	389.2	384.2	384.2	381.7	379.2	374.2	374.2	369.2	364.2	356.7
45°	336.8	329.3	326.8	326.8	324.3	321.8	319.3	319.3	314.3	309.3	304.4
47.5°	284.4	279.4	276.9	274.4	271.9	271.9	269.4	266.9	264.4	259.5	254.5
50°	239.5	234.5	232.0	229.5	229.5	227.0	224.5	219.5	219.5	212.1	207.1
52.5°	199.6	197.1	192.1	189.6	187.1	184.6	182.1	179.6	174.6	169.6	167.1
55°	162.2	157.2	154.7	152.2	149.7	147.2	144.7	142.2	139.7	132.2	127.2
57.5°	129.7	124.7	122.2	122.2	119.7	114.8	112.3	109.8	104.8	99.8	92.3
60°	102.3	99.8	94.8	94.8	92.3	87.3	84.8	79.8	74.8	67.4	62.4
62.5°	79.8	77.3	72.3	69.9	69.9	64.9	59.9	54.9	49.9	44.9	37.4
65°	59.9	57.4	54.9	52.4	49.9	44.9	39.9	34.9	29.9	22.5	15.0
67.5°	44.9	42.4	37.4	37.4	34.9	29.9	24.9	20.0	12.5	7.5	2.5
70°	32.4	29.9	24.9	22.5	22.5	17.5	12.5	7.5	0.0	0.0	0.0
72.5°	22.5	20.0	15.0	12.5	12.5	7.5	2.5	0.0	0.0	0.0	0.0
75°	15.0	12.5	7.5	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.5	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	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	0.0	0.0	0.0	2.5	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: P238326

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2
2.5°	1292.3	1289.8	1289.8	1289.8	1287.3	1289.8	1289.8	1289.8
5°	1257.3	1257.3	1254.8	1254.8	1254.8	1252.4	1252.4	1252.4
7.5°	1214.9	1214.9	1212.4	1212.4	1212.4	1209.9	1207.4	1207.4
10°	1167.5	1167.5	1165.0	1165.0	1165.0	1162.5	1160.0	1160.0
12.5°	1112.6	1112.6	1112.6	1110.2	1110.2	1110.2	1107.7	1110.2
15°	1057.8	1055.3	1055.3	1052.8	1050.3	1050.3	1050.3	1050.3
17.5°	992.9	990.4	990.4	987.9	990.4	987.9	987.9	987.9
20°	925.5	925.5	925.5	925.5	925.5	925.5	928.0	928.0
22.5°	860.7	858.2	860.7	858.2	858.2	860.7	860.7	863.2
25°	793.3	790.8	790.8	793.3	793.3	793.3	795.8	795.8
27.5°	718.5	723.5	723.5	726.0	726.0	728.5	731.0	728.5
30°	653.6	653.6	653.6	656.1	658.6	661.1	663.6	663.6
32.5°	583.8	586.3	588.8	586.3	588.8	593.7	598.7	601.2
35°	526.4	521.4	518.9	518.9	521.4	523.9	526.4	528.9
37.5°	464.0	461.5	459.0	454.0	456.5	459.0	459.0	459.0
40°	406.6	401.7	399.2	396.7	394.2	391.7	391.7	391.7
42.5°	351.8	346.8	341.8	341.8	334.3	331.8	331.8	329.3
45°	299.4	294.4	289.4	289.4	281.9	274.4	271.9	271.9
47.5°	249.5	242.0	239.5	237.0	229.5	222.0	217.0	214.5
50°	202.1	194.6	192.1	189.6	182.1	172.1	167.1	164.7
52.5°	159.7	152.2	147.2	144.7	134.7	127.2	122.2	119.7
55°	119.7	114.8	109.8	107.3	97.3	87.3	79.8	79.8
57.5°	87.3	77.3	74.8	72.3	62.4	54.9	47.4	44.9
60°	57.4	47.4	44.9	42.4	32.4	24.9	22.5	20.0
62.5°	29.9	22.5	20.0	17.5	12.5	7.5	5.0	5.0
65°	10.0	2.5	2.5	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)