

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: P253078

Luminaire Tested: **PRS610D010-S6M12-61SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SWDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 926.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

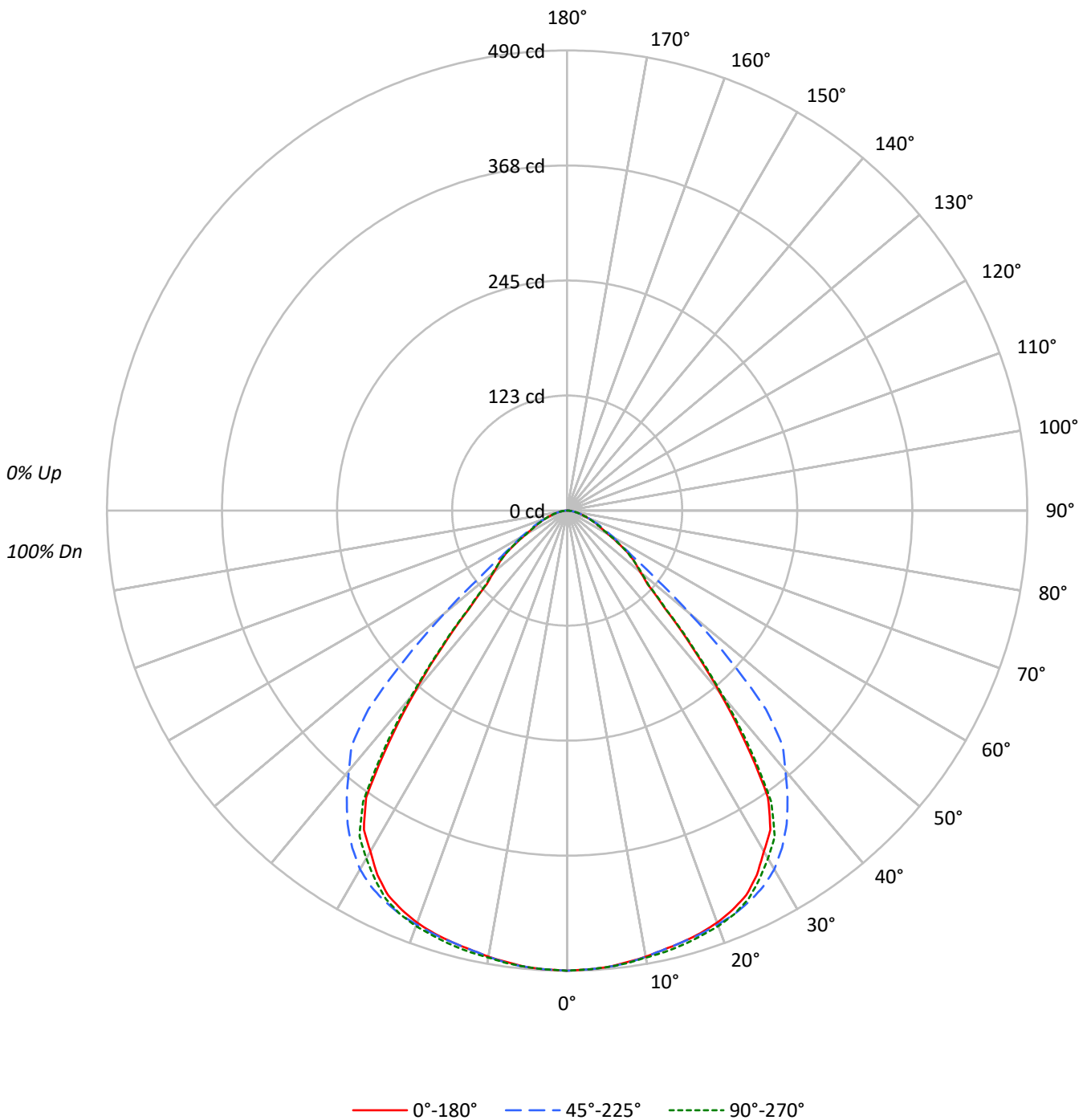
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253078

CATALOG NUMBER: PRS610D010-S6M12-61SWDMW-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P253078

CATALOG NUMBER: PRS610D010-S6M12-61SWDMW-3000K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21097	21097	21097
5°	21096	21096	21096
10°	21090	21090	21130
15°	21200	21200	21329
20°	21397	21484	21572
25°	21459	21820	21687
30°	20836	21930	21264
35°	19605	21424	19910
40°	14231	20318	14552
45°	8933	18218	9109
50°	6805	11434	6939
55°	5975	6403	5975
60°	4374	4874	4374
65°	3617	3912	3617
70°	3021	3135	3021
75°	2545	2545	2545
80°	2132	2132	2132
85°	1877	1877	1877



TEST NUMBER: P253078

CATALOG NUMBER: PRS610D010-S6M12-61SWDMW-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	5.0
10°-20°	134.8	14.6
20°-30°	209.8	22.6
30°-40°	239.7	25.9
40°-50°	160.4	17.3
50°-60°	76.7	8.3
60°-70°	37.4	4.0
70°-80°	16.8	1.8
80°-90°	4.3	0.5
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°	391.0	42.2
0°-40°	630.7	68.1
0°-60°	867.8	93.7
0°-90°	926.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	488	488	488	488	488	46
15°	476	476	476	478	478	134
25°	452	454	459	458	456	207
35°	373	394	408	400	379	222
45°	147	189	299	192	150	122
55°	80	85	85	86	80	69
65°	36	36	38	36	36	36
75°	15	15	15	15	15	16
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



TEST NUMBER: P253078

CATALOG NUMBER: PRS610D010-S6M12-61SWDMW-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	490.0	490.0	490.0	490.0	490.0
2.5°	489.1	489.1	489.1	489.1	489.1
5°	488.1	488.1	488.1	488.1	488.1
7.5°	485.2	485.2	486.2	485.2	486.2
10°	482.4	482.4	482.4	483.3	483.3
12.5°	478.5	478.5	478.5	480.4	481.4
15°	475.6	475.6	475.6	477.6	478.5
17.5°	471.8	471.8	472.8	474.7	474.7
20°	467.0	468.0	468.9	470.8	470.8
22.5°	460.3	462.2	465.1	466.1	465.1
25°	451.7	454.5	459.3	458.4	456.5
27.5°	437.3	444.0	451.7	447.8	443.0
30°	419.1	429.6	441.1	433.4	427.7
32.5°	402.8	411.4	425.8	417.1	411.4
35°	373.0	394.1	407.6	399.9	378.8
37.5°	312.6	359.6	385.5	365.4	320.3
40°	253.2	303.0	361.5	306.9	258.9
42.5°	196.6	244.5	339.5	248.4	200.4
45°	146.7	188.9	299.2	191.8	149.6
47.5°	116.0	140.0	233.0	142.9	118.0
50°	101.6	111.2	170.7	113.2	103.6
52.5°	91.1	96.9	118.9	97.8	91.1
55°	79.6	85.3	85.3	86.3	79.6
57.5°	64.2	72.9	67.1	72.9	65.2
60°	50.8	57.5	56.6	57.5	50.8
62.5°	41.2	45.1	46.0	45.1	41.2
65°	35.5	36.4	38.4	36.4	35.5
67.5°	29.7	30.7	30.7	30.7	28.8
70°	24.0	24.9	24.9	24.9	24.0
72.5°	19.2	20.1	20.1	20.1	19.2
75°	15.3	15.3	15.3	15.3	15.3
77.5°	11.5	12.5	11.5	12.5	11.5
80°	8.6	8.6	8.6	8.6	8.6
82.5°	5.8	5.8	5.8	5.8	5.8
85°	3.8	3.8	3.8	3.8	3.8
87.5°	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)