

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: P253088

Luminaire Tested: **PRS610D010-S6M12-61SWDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253088
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 962.1 lumens
Efficiency: N/A
Efficacy: 96.2 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

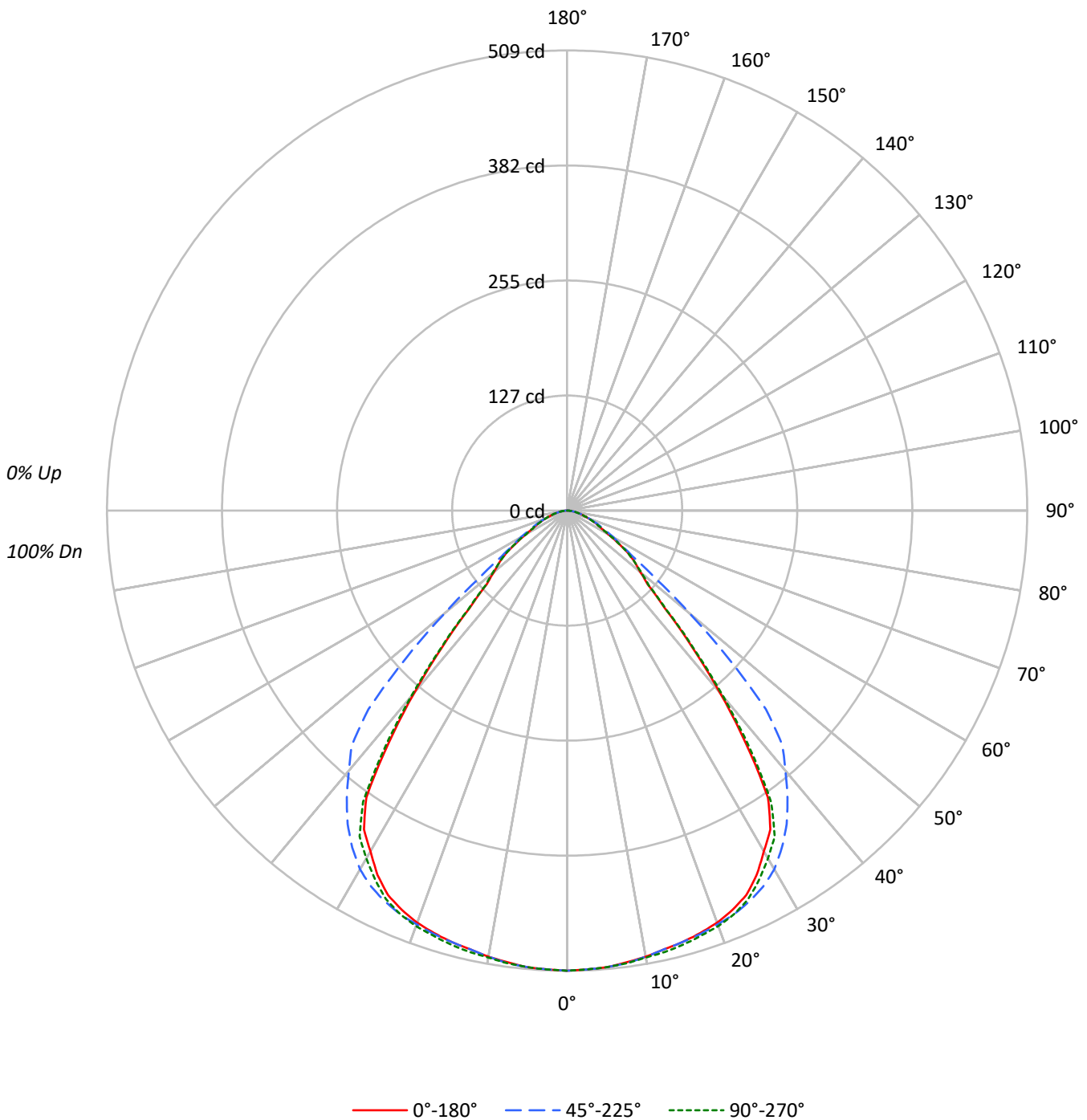
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	21915	21915	21915
5°	21913	21913	21913
10°	21904	21904	21947
15°	22020	22020	22154
20°	22227	22314	22405
25°	22285	22665	22523
30°	21642	22780	22084
35°	20362	22249	20678
40°	14776	21105	15114
45°	9280	18925	9462
50°	7073	11876	7207
55°	6208	6651	6208
60°	4547	5063	4547
65°	3759	4055	3759
70°	3135	3260	3135
75°	2645	2645	2645
80°	2232	2232	2232
85°	1976	1976	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	5.0
10°-20°	140.0	14.6
20°-30°	217.9	22.6
30°-40°	249.0	25.9
40°-50°	166.6	17.3
50°-60°	79.7	8.3
60°-70°	38.9	4.0
70°-80°	17.5	1.8
80°-90°	4.5	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°	406.1	42.2
0°-40°	655.1	68.1
0°-60°	901.3	93.7
0°-90°	962.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	962.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	507	507	507	507	507	48
15°	494	494	494	496	497	140
25°	469	472	477	476	474	215
35°	387	409	423	415	393	230
45°	152	196	311	199	155	126
55°	83	89	89	90	83	72
65°	37	38	40	38	37	37
75°	16	16	16	16	16	17
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	509.0	509.0	509.0	509.0	509.0
2.5°	508.0	508.0	508.0	508.0	508.0
5°	507.0	507.0	507.0	507.0	507.0
7.5°	504.0	504.0	505.0	504.0	505.0
10°	501.0	501.0	501.0	502.0	502.0
12.5°	497.0	497.0	497.0	499.0	500.0
15°	494.0	494.0	494.0	496.0	497.0
17.5°	490.0	490.0	491.0	493.0	493.0
20°	485.1	486.0	487.0	489.0	489.0
22.5°	478.1	480.1	483.1	484.1	483.1
25°	469.1	472.1	477.1	476.1	474.1
27.5°	454.2	461.1	469.1	465.1	460.2
30°	435.3	446.2	458.2	450.2	444.2
32.5°	418.3	427.3	442.2	433.3	427.3
35°	387.4	409.4	423.3	415.3	393.4
37.5°	324.7	373.5	400.4	379.5	332.7
40°	262.9	314.7	375.5	318.7	268.9
42.5°	204.2	254.0	352.6	258.0	208.2
45°	152.4	196.2	310.8	199.2	155.4
47.5°	120.5	145.4	242.0	148.4	122.5
50°	105.6	115.5	177.3	117.5	107.6
52.5°	94.6	100.6	123.5	101.6	94.6
55°	82.7	88.6	88.6	89.6	82.7
57.5°	66.7	75.7	69.7	75.7	67.7
60°	52.8	59.8	58.8	59.8	52.8
62.5°	42.8	46.8	47.8	46.8	42.8
65°	36.9	37.8	39.8	37.8	36.9
67.5°	30.9	31.9	31.9	31.9	29.9
70°	24.9	25.9	25.9	25.9	24.9
72.5°	19.9	20.9	20.9	20.9	19.9
75°	15.9	15.9	15.9	15.9	15.9
77.5°	12.0	12.9	12.0	12.9	12.0
80°	9.0	9.0	9.0	9.0	9.0
82.5°	6.0	6.0	6.0	6.0	6.0
85°	4.0	4.0	4.0	4.0	4.0
87.5°	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)