

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: P238143

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-61SMDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 838.6 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.95 / 1  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

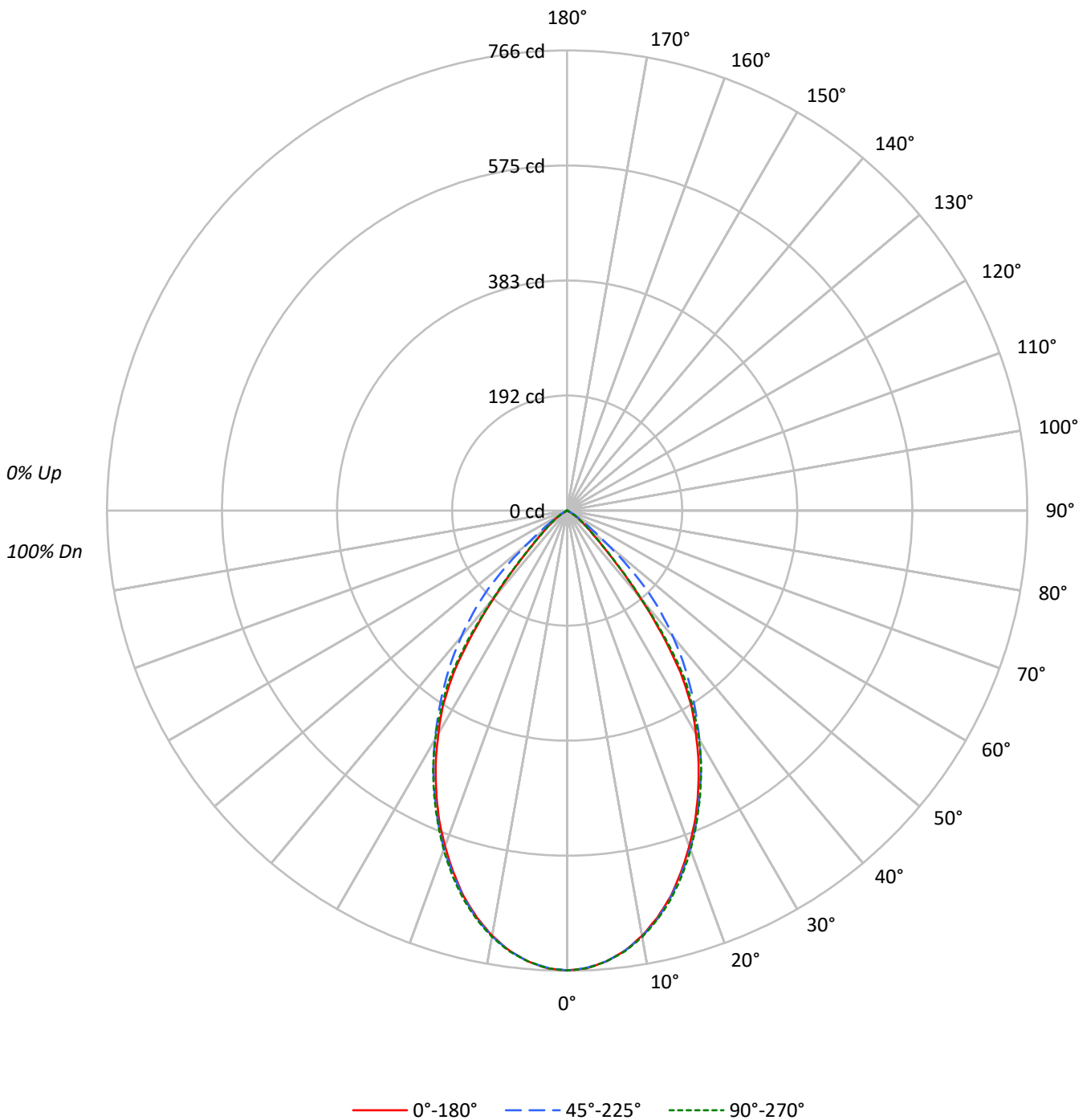
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	97	96	94	93		
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	91	89	87	85		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	82	80	78	78		
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78	78	78	75	73	72	72		
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	72	72	72	69	67	66	66		
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66	66	66	63	61	61	61		
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61	61	61	58	56	56	56		
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56	56	56	53	51	51	51		
8	76	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52	52	52	49	47	47	47		
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48	48	48	45	43	43	43		
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45	45	45	42	40	40	40		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	32959	32959	32959
5°	32549	32549	32549
10°	31417	31461	31500
15°	29642	29687	29816
20°	27226	27446	27533
25°	24504	24775	24865
30°	21313	21885	21835
35°	17303	18759	17908
40°	10595	15434	10808
45°	5066	11593	5243
50°	2820	5767	2820
55°	1651	2372	1727
60°	413	1068	491
65°	0	295	102
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	8.4
10°-20°	186.3	22.2
20°-30°	238.3	28.4
30°-40°	212.6	25.4
40°-50°	101.6	12.1
50°-60°	26.6	3.2
60°-70°	2.3	0.3
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	495.5	59.1
0°-40°	708.1	84.4
0°-60°	836.4	99.7
0°-90°	838.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	753	753	753	754	753	71
15°	665	665	666	668	669	186
25°	516	518	522	523	523	236
35°	329	345	357	350	341	198
45°	83	115	190	116	86	73
55°	22	29	32	29	23	20
65°	0	1	3	0	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	765.5	765.5	765.5	765.5	765.5
2.5°	762.6	762.6	761.7	762.6	762.6
5°	753.1	753.1	753.1	754.0	753.1
7.5°	738.7	738.7	738.7	739.7	739.7
10°	718.6	718.6	719.6	720.5	720.5
12.5°	693.7	693.7	695.7	696.6	696.6
15°	665.0	665.0	666.0	667.9	668.9
17.5°	630.6	631.6	633.5	635.4	636.3
20°	594.2	595.2	599.0	600.9	600.9
22.5°	556.9	557.9	561.7	563.6	562.7
25°	515.8	517.7	521.5	523.4	523.4
27.5°	473.7	476.5	482.3	481.3	483.2
30°	428.7	433.5	440.2	440.2	439.2
32.5°	384.7	390.4	398.1	394.2	389.5
35°	329.2	345.4	356.9	350.2	340.7
37.5°	259.3	295.7	316.7	302.4	269.8
40°	188.5	231.6	274.6	237.3	192.3
42.5°	127.3	165.5	232.5	170.3	132.1
45°	83.2	114.8	190.4	115.8	86.1
47.5°	57.4	76.6	137.8	77.5	58.4
50°	42.1	53.6	86.1	53.6	42.1
52.5°	31.6	39.2	52.6	39.2	31.6
55°	22.0	28.7	31.6	28.7	23.0
57.5°	13.4	19.1	19.1	19.1	13.4
60°	4.8	10.5	12.4	10.5	5.7
62.5°	0.0	2.9	6.7	2.9	0.0
65°	0.0	1.0	2.9	0.0	1.0
67.5°	0.0	0.0	1.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)