

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: P238128

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-61SNDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 922.9 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

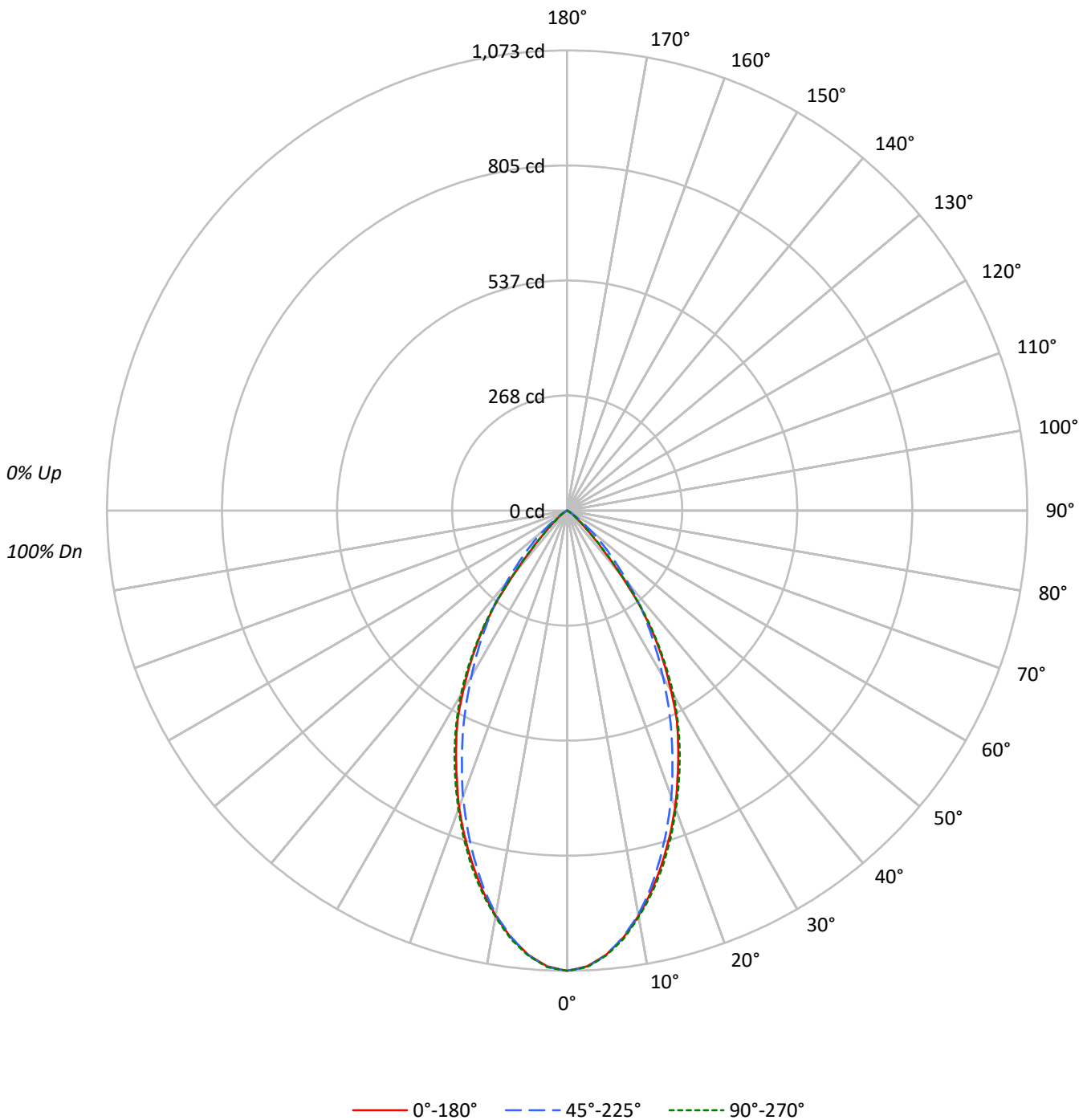
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52					52			
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49					49			

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

	0°	45°	90°
0°	46203	46203	46203
5°	44932	44975	45018
10°	41936	41814	42063
15°	38022	37380	38321
20°	33732	32545	33952
25°	29107	27378	29516
30°	24083	22178	24654
35°	18365	17361	18717
40°	10651	12483	10977
45°	4719	8159	4841
50°	2244	4555	2244
55°	1224	1869	1224
60°	413	741	413
65°	0	194	0
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°	96.7	10.5
10°-20°	236.1	25.6
20°-30°	272.2	29.5
30°-40°	209.9	22.7
40°-50°	86.1	9.3
50°-60°	20.3	2.2
60°-70°	1.7	0.2
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°	604.9	65.5
0°-40°	814.8	88.3
0°-60°	921.2	99.8
0°-90°	922.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	922.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1040	1040	1041	1042	1042	97
15°	853	846	839	847	860	238
25°	613	592	576	597	621	280
35°	349	332	330	340	356	213
45°	78	100	134	103	80	68
55°	16	21	25	21	16	15
65°	0	0	2	0	0	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°	1073.1	1073.1	1073.1	1073.1	1073.1
2.5°	1063.6	1064.5	1064.5	1065.5	1065.5
5°	1039.6	1039.6	1040.6	1041.6	1041.6
7.5°	1004.2	1003.3	1002.3	1004.2	1007.1
10°	959.2	956.4	956.4	958.3	962.1
12.5°	908.5	903.7	900.8	904.7	913.3
15°	853.0	846.3	838.6	847.2	859.7
17.5°	795.5	786.0	774.5	786.9	801.3
20°	736.2	720.9	710.3	723.7	741.0
22.5°	673.0	656.7	641.4	661.5	680.6
25°	612.7	591.6	576.3	597.4	621.3
27.5°	554.3	526.5	510.2	533.2	560.0
30°	484.4	464.3	446.1	470.0	495.9
32.5°	417.4	396.3	387.7	403.0	426.0
35°	349.4	332.2	330.3	339.8	356.1
37.5°	273.8	272.8	278.6	276.7	279.5
40°	189.5	212.5	222.1	214.4	195.3
42.5°	122.5	149.3	173.3	153.2	129.2
45°	77.5	100.5	134.0	103.4	79.5
47.5°	48.8	65.1	100.5	67.0	49.8
50°	33.5	43.1	68.0	43.1	33.5
52.5°	23.0	29.7	42.1	29.7	23.9
55°	16.3	21.1	24.9	21.1	16.3
57.5°	9.6	13.4	14.4	13.4	10.5
60°	4.8	7.7	8.6	7.7	4.8
62.5°	0.0	2.9	4.8	2.9	0.0
65°	0.0	0.0	1.9	0.0	0.0
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)