

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: P238153

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238153  
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-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 871.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 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

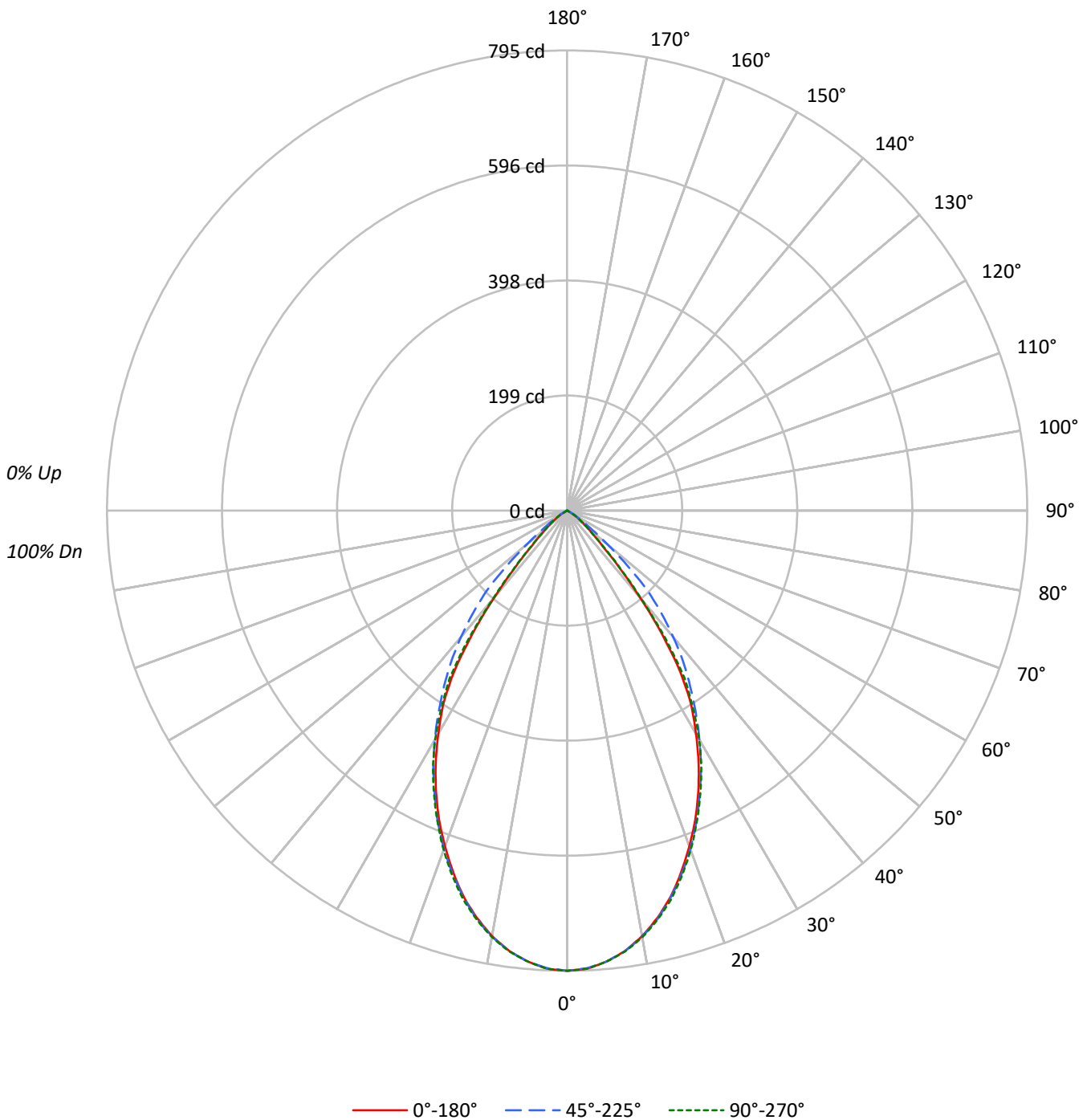
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	34234	34234	34234
5°	33807	33807	33807
10°	32633	32676	32720
15°	30788	30832	30966
20°	28279	28509	28596
25°	25449	25734	25825
30°	22139	22730	22681
35°	17971	19484	18596
40°	11005	16030	11230
45°	5267	12044	5444
50°	2927	5988	2927
55°	1719	2462	1794
60°	431	1111	517
65°	0	306	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°	73.6	8.4
10°-20°	193.5	22.2
20°-30°	247.5	28.4
30°-40°	220.8	25.4
40°-50°	105.6	12.1
50°-60°	27.6	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°	514.6	59.1
0°-40°	735.5	84.4
0°-60°	868.7	99.7
0°-90°	871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	871.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	782	782	782	783	782	74
15°	691	691	692	694	695	193
25°	536	538	542	544	544	245
35°	342	359	371	364	354	206
45°	86	119	198	120	89	75
55°	23	30	33	30	24	21
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°	795.1	795.1	795.1	795.1	795.1
2.5°	792.1	792.1	791.1	792.1	792.1
5°	782.2	782.2	782.2	783.2	782.2
7.5°	767.3	767.3	767.3	768.3	768.3
10°	746.4	746.4	747.4	748.4	748.4
12.5°	720.6	720.6	722.5	723.5	723.5
15°	690.7	690.7	691.7	693.7	694.7
17.5°	655.0	655.9	657.9	659.9	660.9
20°	617.2	618.2	622.2	624.1	624.1
22.5°	578.4	579.4	583.4	585.4	584.4
25°	535.7	537.7	541.7	543.6	543.6
27.5°	492.0	494.9	500.9	499.9	501.9
30°	445.3	450.2	457.2	457.2	456.2
32.5°	399.5	405.5	413.4	409.5	404.5
35°	341.9	358.8	370.7	363.8	353.8
37.5°	269.3	307.1	329.0	314.1	280.3
40°	195.8	240.5	285.2	246.5	199.8
42.5°	132.2	171.9	241.5	176.9	137.2
45°	86.5	119.3	197.8	120.3	89.4
47.5°	59.6	79.5	143.1	80.5	60.6
50°	43.7	55.7	89.4	55.7	43.7
52.5°	32.8	40.7	54.7	40.7	32.8
55°	22.9	29.8	32.8	29.8	23.9
57.5°	13.9	19.9	19.9	19.9	13.9
60°	5.0	10.9	12.9	10.9	6.0
62.5°	0.0	3.0	7.0	3.0	0.0
65°	0.0	1.0	3.0	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)