

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: P238148

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238148  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

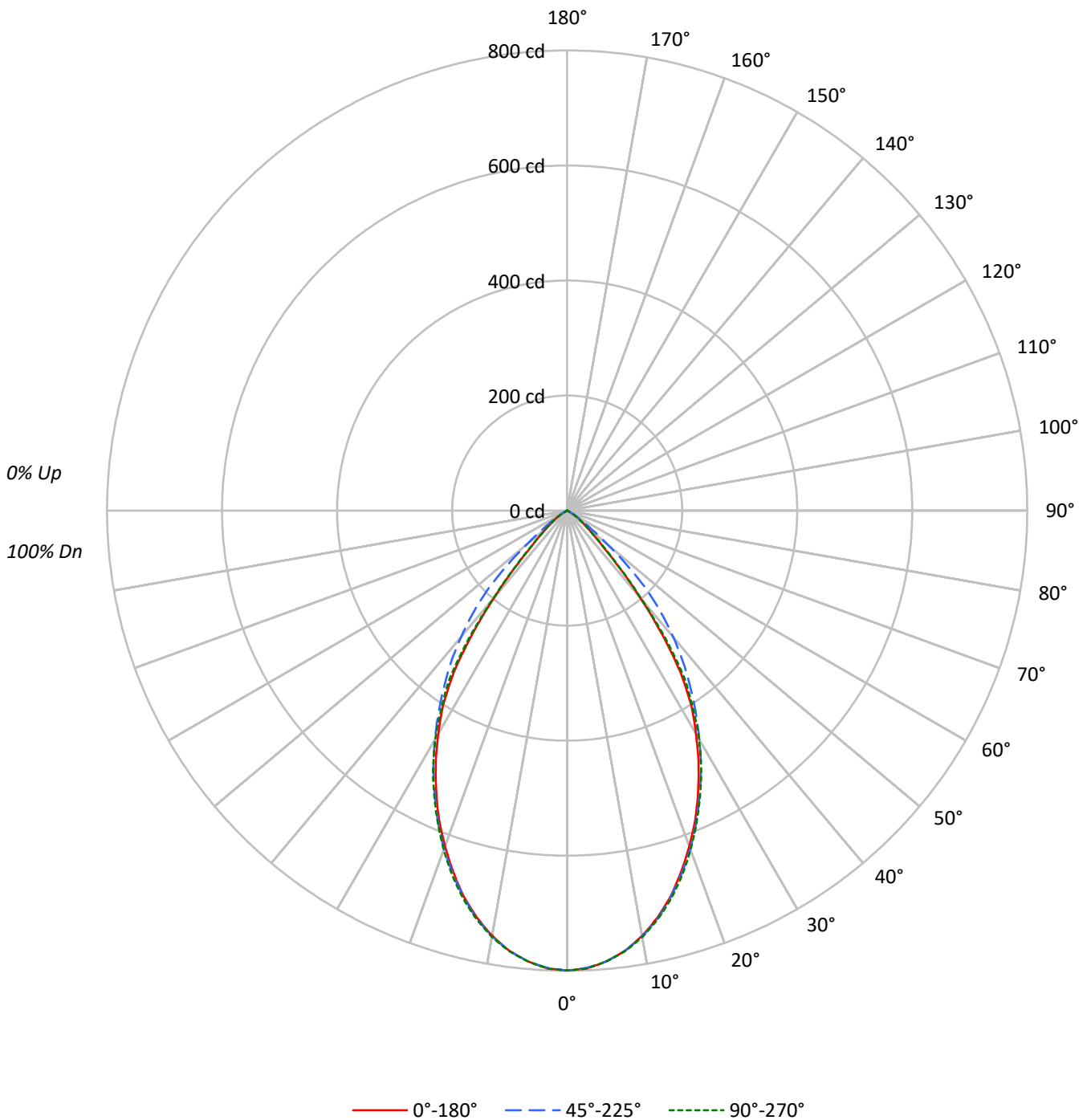
Lumens per Lamp: N/A  
Luminaire Lumens: 876.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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	52	52	52		
8	76	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52	52	52	50	48	48	48		
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48	48	48	45	44	44	44		
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45	45	45	42	41	41	41		

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

	0°	45°	90°
0°	34427	34427	34427
5°	33997	33997	33997
10°	32821	32864	32908
15°	30966	31010	31144
20°	28440	28669	28761
25°	25597	25882	25977
30°	22263	22860	22810
35°	18071	19595	18701
40°	11067	16125	11292
45°	5297	12111	5480
50°	2947	6028	2947
55°	1727	2477	1802
60°	431	1119	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°	74.0	8.4
10°-20°	194.6	22.2
20°-30°	249.0	28.4
30°-40°	222.1	25.4
40°-50°	106.2	12.1
50°-60°	27.8	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°	517.6	59.1
0°-40°	739.7	84.4
0°-60°	873.7	99.7
0°-90°	876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	876.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	787	787	787	788	787	74
15°	695	695	696	698	699	194
25°	539	541	545	547	547	246
35°	344	361	373	366	356	207
45°	87	120	199	121	90	76
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°	799.6	799.6	799.6	799.6	799.6
2.5°	796.6	796.6	795.6	796.6	796.6
5°	786.6	786.6	786.6	787.6	786.6
7.5°	771.7	771.7	771.7	772.7	772.7
10°	750.7	750.7	751.7	752.7	752.7
12.5°	724.7	724.7	726.7	727.7	727.7
15°	694.7	694.7	695.7	697.7	698.7
17.5°	658.7	659.7	661.7	663.7	664.7
20°	620.7	621.7	625.7	627.7	627.7
22.5°	581.7	582.7	586.7	588.7	587.7
25°	538.8	540.8	544.8	546.8	546.8
27.5°	494.8	497.8	503.8	502.8	504.8
30°	447.8	452.8	459.8	459.8	458.8
32.5°	401.8	407.8	415.8	411.8	406.8
35°	343.8	360.8	372.8	365.8	355.8
37.5°	270.9	308.9	330.9	315.9	281.9
40°	196.9	241.9	286.9	247.9	200.9
42.5°	132.9	172.9	242.9	177.9	137.9
45°	87.0	119.9	198.9	120.9	90.0
47.5°	60.0	80.0	143.9	81.0	61.0
50°	44.0	56.0	90.0	56.0	44.0
52.5°	33.0	41.0	55.0	41.0	33.0
55°	23.0	30.0	33.0	30.0	24.0
57.5°	14.0	20.0	20.0	20.0	14.0
60°	5.0	11.0	13.0	11.0	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)