

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: P238149

Luminaire Tested: **PRS615D010-S6M12-61SMDMB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238149  
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: PRS615D010-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: 1166.3 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

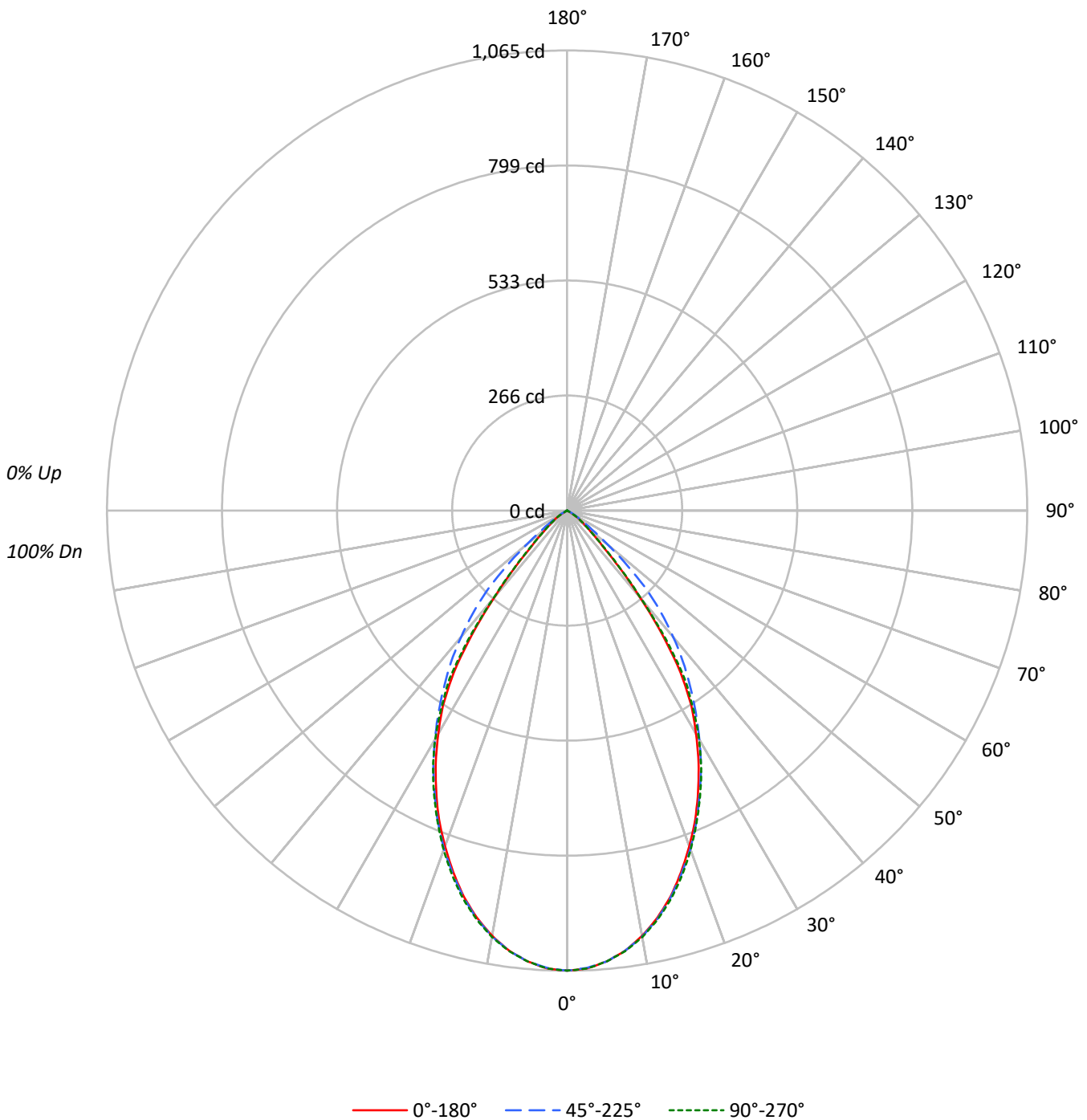
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	45841	45841	45841
5°	45269	45269	45269
10°	43698	43755	43812
15°	41227	41289	41468
20°	37865	38172	38295
25°	34077	34457	34585
30°	29641	30436	30372
35°	24063	26091	24904
40°	14737	21470	15035
45°	7051	16124	7295
50°	3925	8025	3925
55°	2297	3295	2395
60°	577	1490	689
65°	0	408	132
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°	98.5	8.4
10°-20°	259.1	22.2
20°-30°	331.5	28.4
30°-40°	295.7	25.4
40°-50°	141.4	12.1
50°-60°	37.0	3.2
60°-70°	3.1	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°	689.1	59.1
0°-40°	984.8	84.4
0°-60°	1163.2	99.7
0°-90°	1166.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1047	1047	1047	1049	1047	98
15°	925	925	926	929	930	258
25°	717	720	725	728	728	328
35°	458	480	496	487	474	276
45°	116	160	265	161	120	101
55°	31	40	44	40	32	28
65°	0	1	4	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°	1064.7	1064.7	1064.7	1064.7	1064.7
2.5°	1060.7	1060.7	1059.3	1060.7	1060.7
5°	1047.4	1047.4	1047.4	1048.7	1047.4
7.5°	1027.4	1027.4	1027.4	1028.7	1028.7
10°	999.5	999.5	1000.8	1002.1	1002.1
12.5°	964.9	964.9	967.5	968.8	968.8
15°	924.9	924.9	926.3	928.9	930.3
17.5°	877.0	878.4	881.0	883.7	885.0
20°	826.4	827.8	833.1	835.8	835.8
22.5°	774.5	775.9	781.2	783.9	782.5
25°	717.3	720.0	725.3	728.0	728.0
27.5°	658.8	662.8	670.7	669.4	672.1
30°	596.2	602.9	612.2	612.2	610.9
32.5°	535.0	543.0	553.6	548.3	541.7
35°	457.8	480.4	496.4	487.1	473.8
37.5°	360.7	411.2	440.5	420.5	375.3
40°	262.2	322.1	382.0	330.0	267.5
42.5°	177.0	230.2	323.4	236.9	183.7
45°	115.8	159.7	264.8	161.0	119.8
47.5°	79.9	106.5	191.6	107.8	81.2
50°	58.6	74.5	119.8	74.5	58.6
52.5°	43.9	54.6	73.2	54.6	43.9
55°	30.6	39.9	43.9	39.9	31.9
57.5°	18.6	26.6	26.6	26.6	18.6
60°	6.7	14.6	17.3	14.6	8.0
62.5°	0.0	4.0	9.3	4.0	0.0
65°	0.0	1.3	4.0	0.0	1.3
67.5°	0.0	0.0	1.3	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)