

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: P238194

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-61SMDMW  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1419.3 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 1.03  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

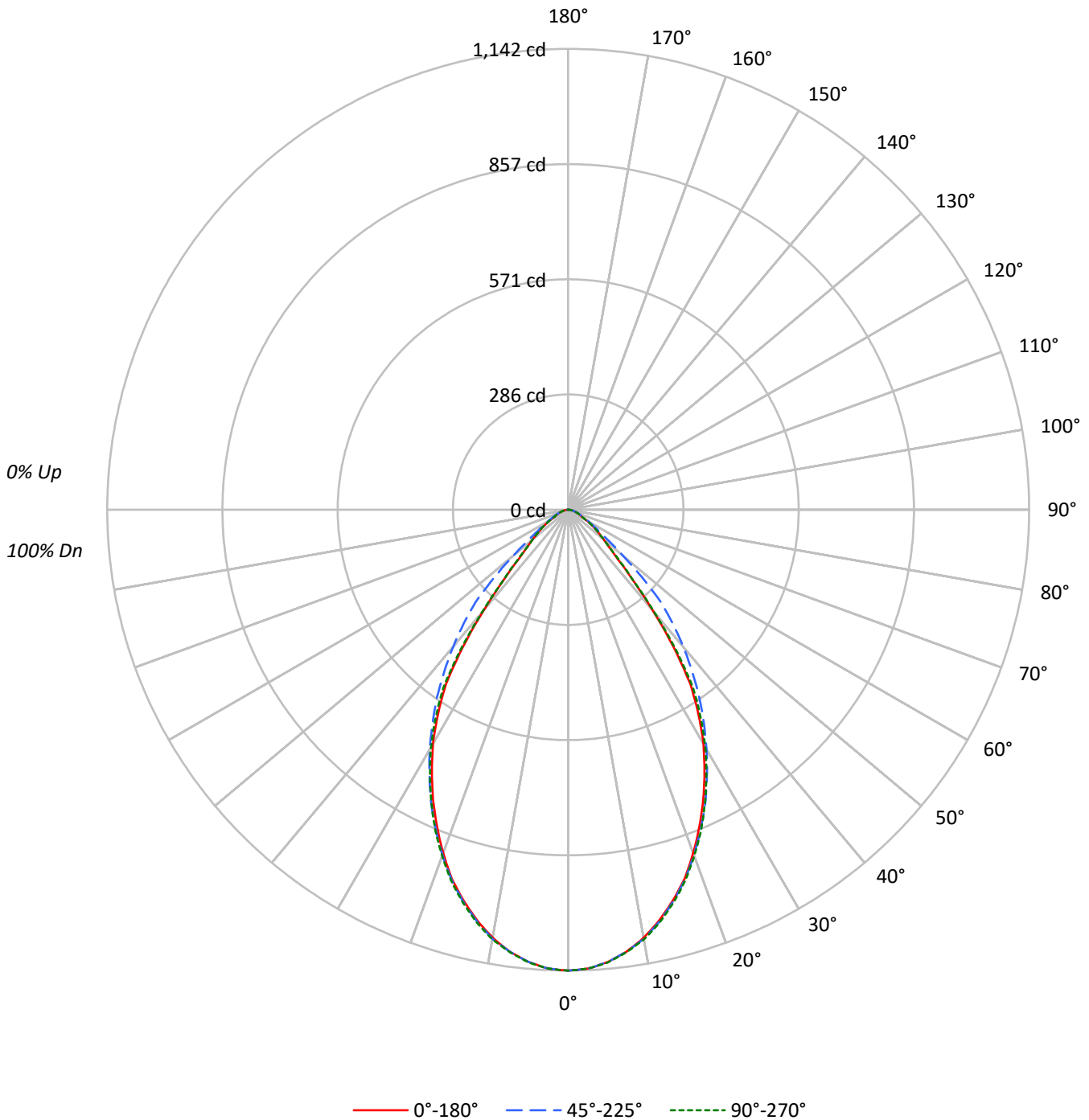
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88		91	88	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	79		84	81	77		82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64		73	68	64		71	67	63	61
6	82	71	64	59	80	71	64	59	69	63	59		67	62	58		66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54		63	58	54		62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50		59	53	49		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	47	43	64	54	47	43	53	47	43		52	46	43		51	46	43	41

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

	0°	45°	90°
0°	49182	49182	49182
5°	48623	48623	48679
10°	47086	47204	47261
15°	44686	44806	44922
20°	41480	41723	41846
25°	37630	38138	38077
30°	33295	34086	33757
35°	27710	29739	28341
40°	18255	24916	18632
45°	10698	19777	11027
50°	7670	11769	7670
55°	5998	6996	6095
60°	4357	5046	4357
65°	3525	3933	3525
70°	3021	3185	3185
75°	2662	2662	2662
80°	2306	2306	2306
85°	1976	1976	1976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.0	7.5
10°-20°	281.4	19.8
20°-30°	366.0	25.8
30°-40°	337.9	23.8
40°-50°	187.1	13.2
50°-60°	80.9	5.7
60°-70°	37.2	2.6
70°-80°	17.9	1.3
80°-90°	4.8	0.3
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°	753.4	53.1
0°-40°	1091.3	76.9
0°-60°	1359.4	95.8
0°-90°	1419.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1419.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1125	1126	1125	1126	1126	106
15°	1002	1004	1005	1008	1008	281
25°	792	795	803	804	802	362
35°	527	547	566	554	539	318
45°	176	216	325	221	181	147
55°	80	89	93	89	81	72
65°	35	36	39	36	35	35
75°	16	17	16	17	16	17
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1142.3	1142.3	1142.3	1142.3	1142.3
2.5°	1138.3	1138.3	1138.3	1138.3	1138.3
5°	1125.0	1126.3	1125.0	1126.3	1126.3
7.5°	1105.0	1106.3	1105.0	1106.3	1106.3
10°	1077.0	1077.0	1079.7	1079.7	1081.0
12.5°	1042.4	1043.8	1045.1	1046.4	1047.8
15°	1002.5	1003.8	1005.2	1007.8	1007.8
17.5°	958.6	957.2	961.2	961.2	963.9
20°	905.3	908.0	910.6	912.0	913.3
22.5°	849.4	852.1	857.4	858.7	860.0
25°	792.1	794.8	802.8	804.1	801.5
27.5°	730.9	737.6	744.2	742.9	741.6
30°	669.7	673.7	685.6	681.6	679.0
32.5°	600.4	613.7	624.4	619.1	611.1
35°	527.2	547.2	565.8	553.8	539.2
37.5°	427.4	479.3	503.2	484.6	440.7
40°	324.8	386.1	443.3	392.7	331.5
42.5°	237.0	292.9	383.4	299.5	241.0
45°	175.7	215.7	324.8	221.0	181.1
47.5°	137.1	165.1	247.6	165.1	138.5
50°	114.5	129.1	175.7	130.5	114.5
52.5°	95.9	106.5	125.1	106.5	95.9
55°	79.9	89.2	93.2	89.2	81.2
57.5°	63.9	73.2	71.9	73.2	65.2
60°	50.6	57.2	58.6	57.2	50.6
62.5°	38.6	43.9	47.9	43.9	38.6
65°	34.6	35.9	38.6	35.9	34.6
67.5°	29.3	30.6	30.6	30.6	29.3
70°	24.0	25.3	25.3	25.3	25.3
72.5°	20.0	21.3	21.3	21.3	20.0
75°	16.0	17.3	16.0	17.3	16.0
77.5°	12.0	13.3	13.3	13.3	13.3
80°	9.3	9.3	9.3	9.3	9.3
82.5°	6.7	6.7	6.7	6.7	6.7
85°	4.0	4.0	4.0	4.0	4.0
87.5°	2.7	2.7	1.3	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)