

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: P238019

Luminaire Tested: **PRS615D010-S6M12-64SMDMW-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238019  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-64SMDMW-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1495.9 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

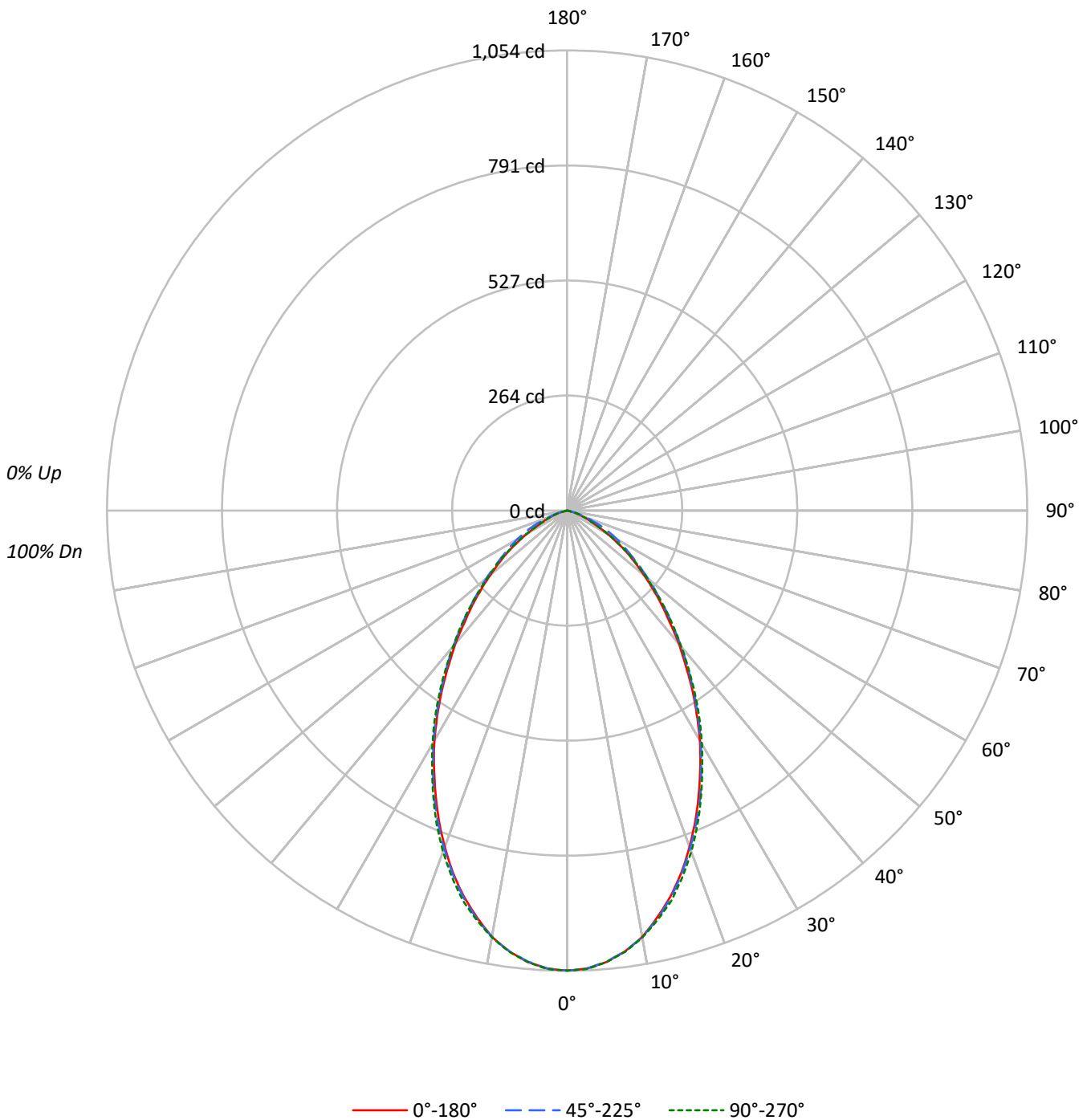
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	45368	45368	45368
5°	44854	44798	44854
10°	43348	43348	43405
15°	40772	40893	41187
20°	37544	37727	38089
25°	33896	34271	34461
30°	30208	30407	30670
35°	26233	26512	26785
40°	22398	22769	22842
45°	18699	19266	19266
50°	15426	16136	15781
55°	12423	13414	12716
60°	9119	11401	9343
65°	6204	9037	6337
70°	4494	5829	4494
75°	2645	3078	2429
80°	645	992	645
85°	642	642	642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	6.5
10°-20°	256.8	17.2
20°-30°	329.7	22.0
30°-40°	315.1	21.1
40°-50°	244.0	16.3
50°-60°	156.9	10.5
60°-70°	74.4	5.0
70°-80°	19.9	1.3
80°-90°	1.5	0.1
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°	684.2	45.7
0°-40°	999.2	66.8
0°-60°	1400.2	93.6
0°-90°	1495.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1495.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1038	1038	1036	1038	1038	98
15°	915	916	917	921	924	256
25°	714	715	721	723	725	328
35°	499	500	504	507	510	311
45°	307	314	316	319	316	237
55°	166	175	179	177	169	148
65°	61	70	89	70	62	64
75°	16	18	18	18	15	17
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1049.7	1049.7	1049.7	1049.7	1051.1
5°	1037.8	1037.8	1036.5	1037.8	1037.8
7.5°	1018.0	1018.0	1018.0	1019.3	1019.3
10°	991.5	991.5	991.5	992.8	992.8
12.5°	954.4	955.8	957.1	959.7	959.7
15°	914.7	916.0	917.4	921.3	924.0
17.5°	869.7	871.0	872.4	877.6	879.0
20°	819.4	819.4	823.4	830.0	831.3
22.5°	767.8	769.1	773.1	775.7	779.7
25°	713.5	714.8	721.4	722.8	725.4
27.5°	660.6	660.6	664.5	667.2	669.8
30°	607.6	607.6	611.6	612.9	616.9
32.5°	552.0	553.3	557.3	559.9	563.9
35°	499.1	500.4	504.4	507.0	509.6
37.5°	444.8	451.4	454.0	456.7	456.7
40°	398.5	402.4	405.1	409.0	406.4
42.5°	348.1	357.4	358.7	362.7	360.1
45°	307.1	313.7	316.4	319.0	316.4
47.5°	266.1	274.0	276.7	278.0	274.0
50°	230.3	237.0	240.9	240.9	235.6
52.5°	195.9	203.9	207.8	207.8	202.5
55°	165.5	174.7	178.7	177.4	169.4
57.5°	133.7	145.6	154.9	148.3	137.7
60°	105.9	119.1	132.4	120.5	108.5
62.5°	79.4	92.7	109.9	94.0	80.7
65°	60.9	70.2	88.7	70.2	62.2
67.5°	47.7	53.0	66.2	53.0	47.7
70°	35.7	39.7	46.3	39.7	35.7
72.5°	25.2	29.1	30.4	29.1	25.2
75°	15.9	18.5	18.5	18.5	14.6
77.5°	5.3	7.9	10.6	7.9	5.3
80°	2.6	2.6	4.0	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3
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)