

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: P238009

Luminaire Tested: **PRS615D010-S6M12-64SMDMW-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238009  
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-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1440.3 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

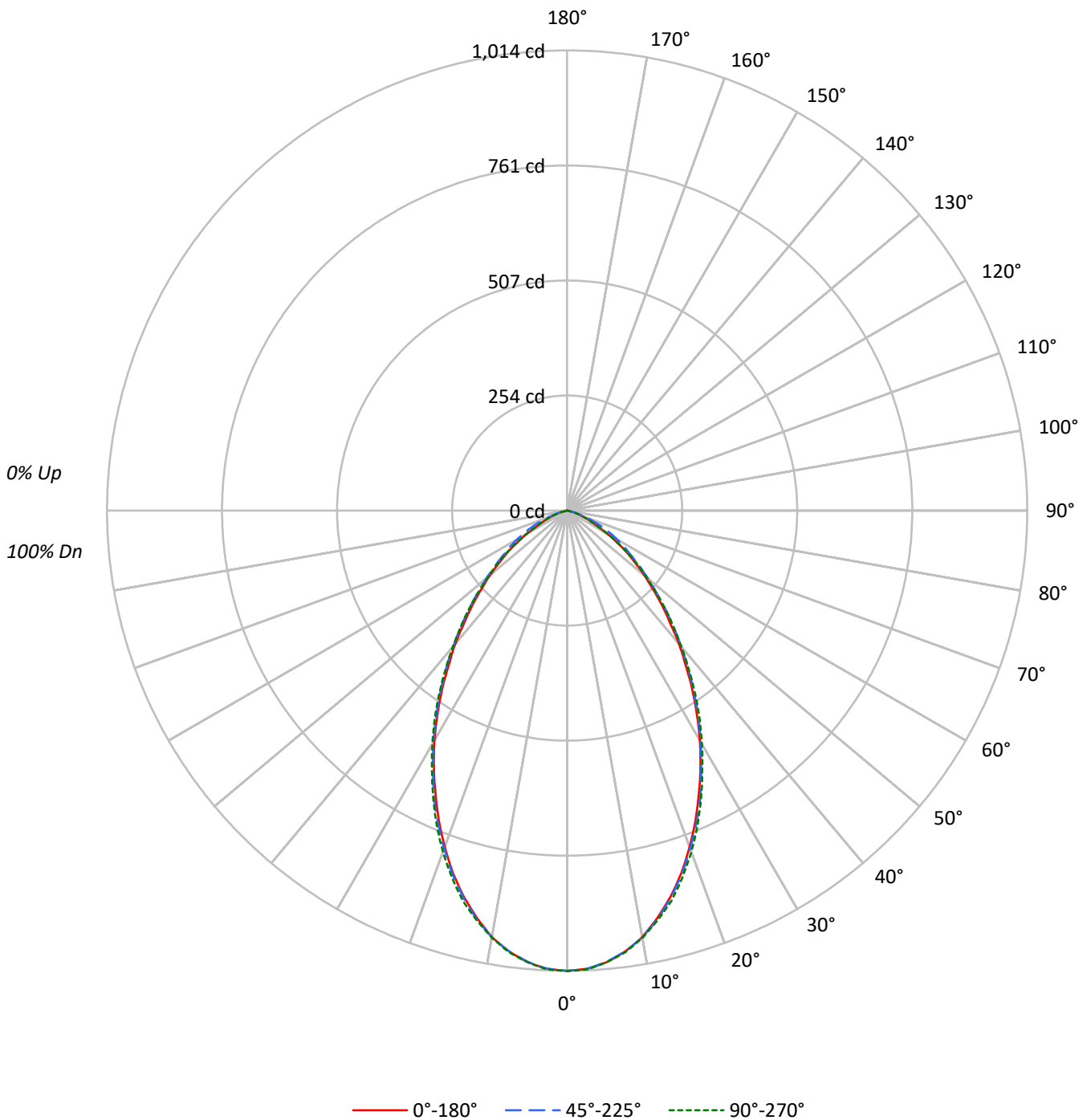
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	43680	43680	43680
5°	43186	43129	43186
10°	41735	41735	41792
15°	39257	39368	39653
20°	36147	36321	36673
25°	32637	32998	33179
30°	29084	29273	29527
35°	25256	25524	25792
40°	21560	21920	21993
45°	18005	18547	18547
50°	14857	15540	15198
55°	11958	12919	12243
60°	8783	10979	8999
65°	5970	8700	6103
70°	4330	5615	4330
75°	2545	2961	2329
80°	620	942	620
85°	642	642	642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	6.5
10°-20°	247.3	17.2
20°-30°	317.5	22.0
30°-40°	303.3	21.1
40°-50°	234.9	16.3
50°-60°	151.1	10.5
60°-70°	71.6	5.0
70°-80°	19.1	1.3
80°-90°	1.4	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°	658.7	45.7
0°-40°	962.1	66.8
0°-60°	1348.1	93.6
0°-90°	1440.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1440.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	999	999	998	999	999	94
15°	881	882	883	887	890	246
25°	687	688	695	696	698	315
35°	480	482	486	488	491	300
45°	296	302	305	307	305	229
55°	159	168	172	171	163	142
65°	59	68	85	68	60	61
75°	15	18	18	18	14	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°	1014.5	1014.5	1014.5	1014.5	1014.5
2.5°	1010.7	1010.7	1010.7	1010.7	1012.0
5°	999.2	999.2	997.9	999.2	999.2
7.5°	980.1	980.1	980.1	981.4	981.4
10°	954.6	954.6	954.6	955.9	955.9
12.5°	918.9	920.2	921.5	924.0	924.0
15°	880.7	882.0	883.2	887.1	889.6
17.5°	837.4	838.6	839.9	845.0	846.3
20°	788.9	788.9	792.7	799.1	800.4
22.5°	739.2	740.5	744.3	746.9	750.7
25°	687.0	688.2	694.6	695.9	698.4
27.5°	636.0	636.0	639.8	642.4	644.9
30°	585.0	585.0	588.8	590.1	593.9
32.5°	531.5	532.7	536.6	539.1	542.9
35°	480.5	481.8	485.6	488.1	490.7
37.5°	428.2	434.6	437.2	439.7	439.7
40°	383.6	387.5	390.0	393.8	391.3
42.5°	335.2	344.1	345.4	349.2	346.7
45°	295.7	302.1	304.6	307.2	304.6
47.5°	256.2	263.8	266.4	267.6	263.8
50°	221.8	228.1	232.0	232.0	226.9
52.5°	188.6	196.3	200.1	200.1	195.0
55°	159.3	168.2	172.1	170.8	163.1
57.5°	128.7	140.2	149.1	142.7	132.5
60°	102.0	114.7	127.5	116.0	104.5
62.5°	76.5	89.2	105.8	90.5	77.7
65°	58.6	67.5	85.4	67.5	59.9
67.5°	45.9	51.0	63.7	51.0	45.9
70°	34.4	38.2	44.6	38.2	34.4
72.5°	24.2	28.0	29.3	28.0	24.2
75°	15.3	17.8	17.8	17.8	14.0
77.5°	5.1	7.6	10.2	7.6	5.1
80°	2.5	2.5	3.8	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
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)