

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: P238109

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238109  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-64SMDC-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1480.1 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

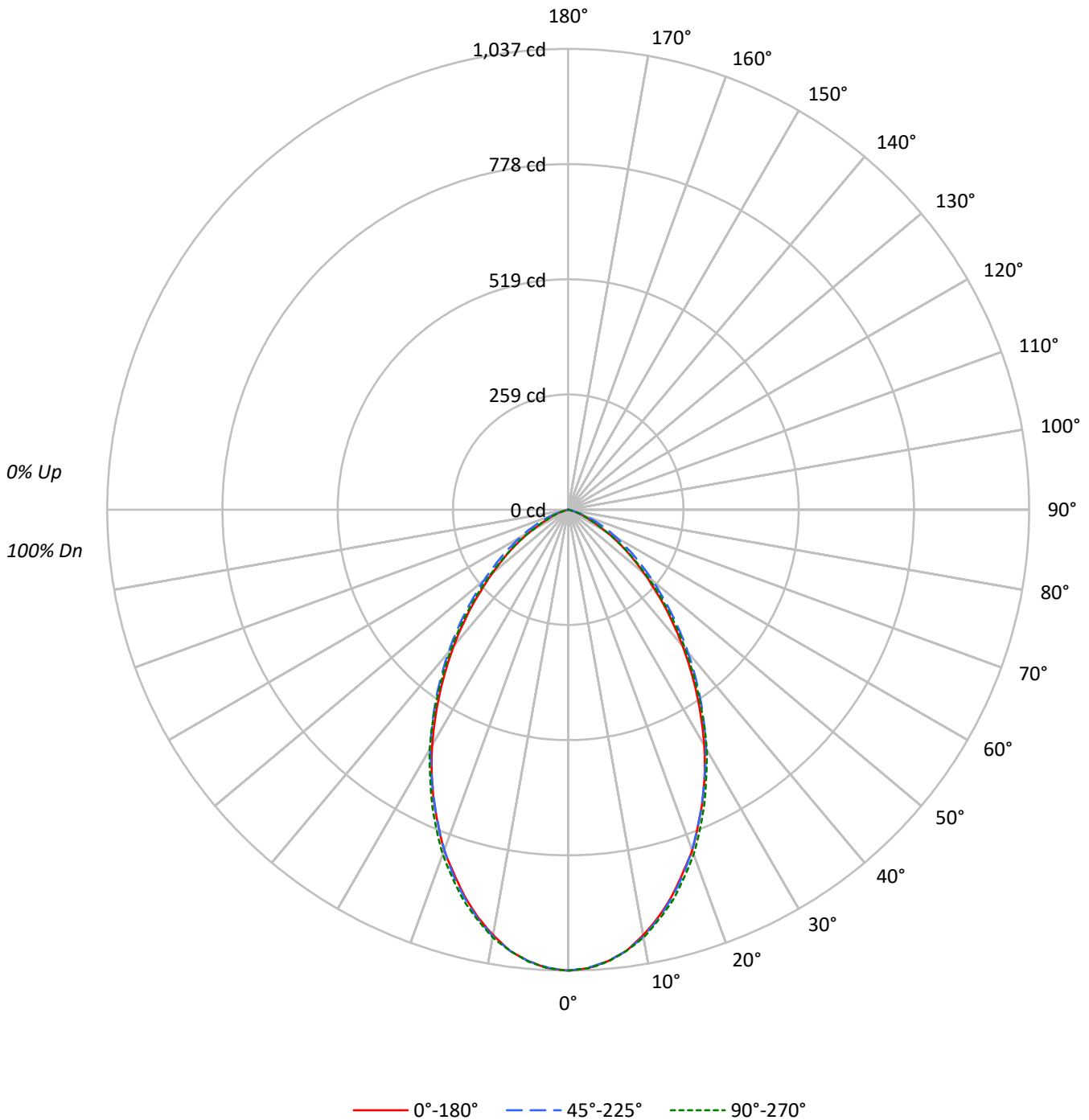
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P238109

CATALOG NUMBER: PRS615D010-S6M12-64SMDC-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P238109

CATALOG NUMBER: PRS615D010-S6M12-64SMDC-4000K

**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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	44649	44649	44649
5°	44076	44076	44132
10°	42500	42618	42732
15°	40144	40264	40558
20°	37379	37319	37805
25°	34039	33977	34480
30°	30421	30814	31013
35°	26454	27216	26938
40°	22482	23522	22999
45°	18626	19917	19113
50°	14904	16592	15346
55°	11733	13617	11928
60°	8327	10721	8439
65°	5400	8099	5532
70°	3663	4998	3663
75°	1763	2196	1763
80°	0	322	0
85°	0	0	0



TEST NUMBER: P238109

CATALOG NUMBER: PRS615D010-S6M12-64SMDC-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	6.5
10°-20°	253.1	17.1
20°-30°	329.5	22.3
30°-40°	319.6	21.6
40°-50°	247.0	16.7
50°-60°	152.8	10.3
60°-70°	67.4	4.6
70°-80°	14.8	1.0
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°	678.6	45.8
0°-40°	998.1	67.4
0°-60°	1397.9	94.4
0°-90°	1480.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1480.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1020	1021	1020	1021	1021	96
15°	901	902	903	908	910	252
25°	716	715	715	722	726	328
35°	503	509	518	514	512	314
45°	306	318	327	323	314	236
55°	156	168	181	171	159	140
65°	53	64	80	64	54	56
75°	11	13	13	13	11	12
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238109

CATALOG NUMBER: PRS615D010-S6M12-64SMDC-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1037.0	1037.0	1037.0	1037.0	1037.0
2.5°	1033.0	1033.0	1031.7	1033.0	1033.0
5°	1019.8	1021.1	1019.8	1021.1	1021.1
7.5°	1001.3	1001.3	1001.3	1002.6	1001.3
10°	972.1	973.4	974.8	976.1	977.4
12.5°	939.0	940.3	941.7	944.3	944.3
15°	900.6	901.9	903.3	908.5	909.9
17.5°	856.9	858.2	860.9	866.2	867.5
20°	815.8	811.9	814.5	818.5	825.1
22.5°	765.5	765.5	765.5	770.8	776.1
25°	716.5	715.2	715.2	721.8	725.8
27.5°	664.9	664.9	666.2	670.2	672.8
30°	611.9	611.9	619.8	618.5	623.8
32.5°	556.3	560.2	568.2	565.5	566.8
35°	503.3	508.6	517.8	513.9	512.5
37.5°	450.3	456.9	467.5	463.5	459.6
40°	400.0	409.2	418.5	413.2	409.2
42.5°	351.0	361.6	372.2	366.9	361.6
45°	305.9	317.9	327.1	323.2	313.9
47.5°	260.9	275.5	284.7	280.8	271.5
50°	222.5	237.1	247.7	241.0	229.1
52.5°	188.1	201.3	211.9	204.0	192.0
55°	156.3	168.2	181.4	170.8	158.9
57.5°	125.8	139.1	151.0	141.7	128.5
60°	96.7	111.3	124.5	113.9	98.0
62.5°	71.5	86.1	102.0	87.4	72.8
65°	53.0	63.6	79.5	63.6	54.3
67.5°	39.7	46.4	59.6	47.7	39.7
70°	29.1	34.4	39.7	34.4	29.1
72.5°	19.9	23.8	23.8	23.8	19.9
75°	10.6	13.2	13.2	13.2	10.6
77.5°	1.3	4.0	5.3	4.0	1.3
80°	0.0	0.0	1.3	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)