

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: P237993

Luminaire Tested: **PRS610D010-S6M12-64SNDMW-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-64SNDMW-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 1098.1 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

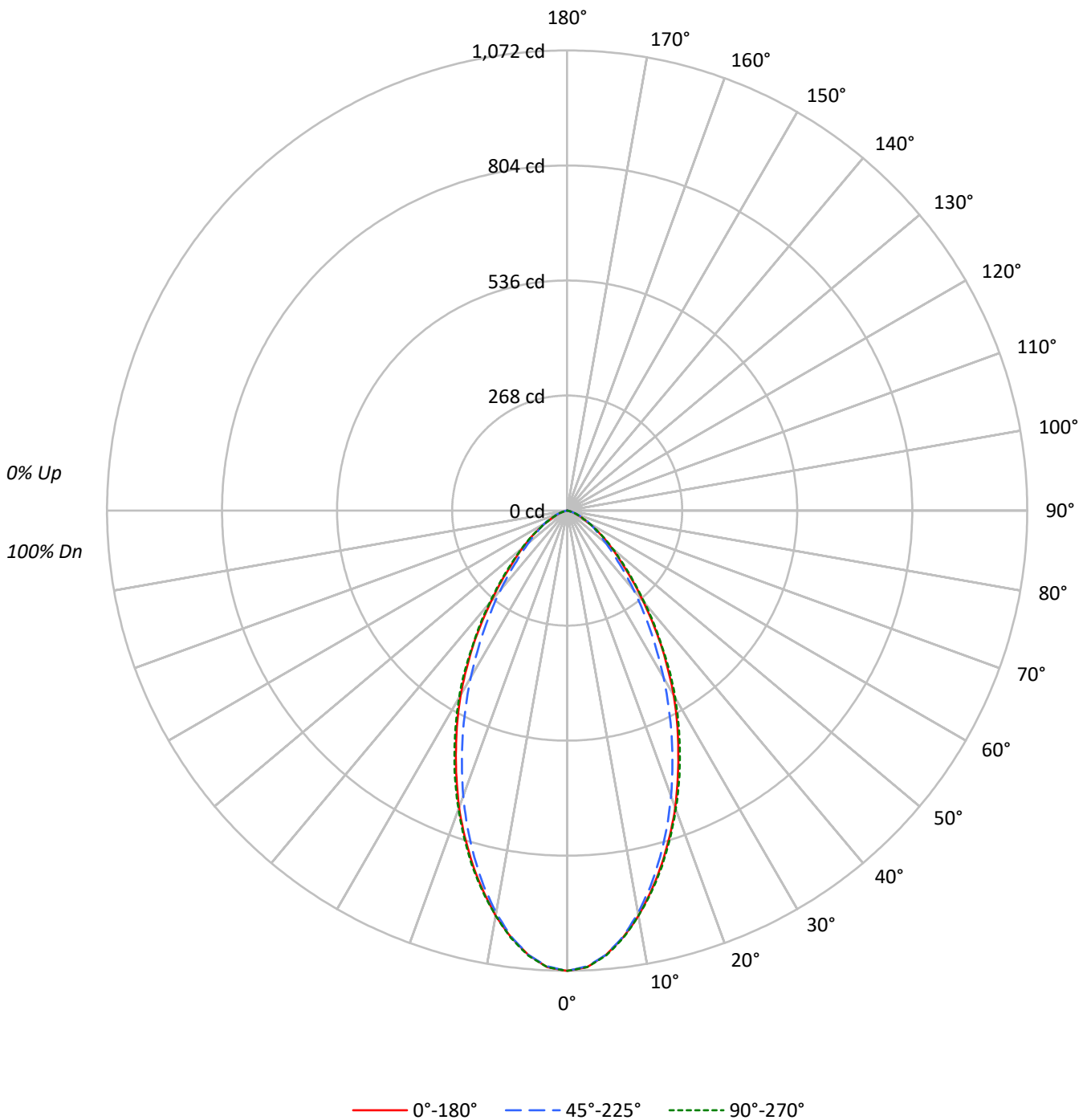
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68					68			
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62					62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57					57			
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52					52			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48					48			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

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

	0°	45°	90°
0°	46164	46164	46164
5°	44893	44893	44975
10°	41897	41604	41897
15°	37977	37251	38151
20°	33732	32417	33906
25°	29107	27335	29516
30°	24654	22323	25037
35°	19979	17613	20178
40°	15445	13506	15766
45°	11660	10144	12068
50°	9043	7891	9297
55°	6898	6253	7041
60°	5029	5279	5029
65°	3606	4096	3515
70°	2530	2895	2530
75°	1431	1597	1431
80°	471	471	471
85°	494	494	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	8.8
10°-20°	235.5	21.4
20°-30°	272.2	24.8
30°-40°	223.3	20.3
40°-50°	141.1	12.9
50°-60°	80.1	7.3
60°-70°	38.0	3.5
70°-80°	10.6	1.0
80°-90°	0.8	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°	604.1	55.0
0°-40°	827.4	75.4
0°-60°	1048.6	95.5
0°-90°	1098.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1039	1039	1039	1042	1041	97
15°	852	845	836	847	856	238
25°	613	591	575	596	621	281
35°	380	352	335	358	384	237
45°	192	176	167	179	198	151
55°	92	88	83	90	94	83
65°	35	37	40	37	34	36
75°	9	10	10	10	9	10
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°	1072.2	1072.2	1072.2	1072.2	1072.2
2.5°	1064.6	1063.6	1062.6	1063.6	1064.6
5°	1038.7	1038.7	1038.7	1041.6	1040.6
7.5°	1002.3	1001.4	1000.4	1003.3	1004.2
10°	958.3	954.5	951.6	956.4	958.3
12.5°	906.6	901.8	896.1	902.8	909.5
15°	852.0	845.3	835.7	847.2	855.9
17.5°	794.6	782.1	772.6	785.0	798.4
20°	736.2	720.9	707.5	720.9	740.0
22.5°	674.0	653.9	640.5	657.7	681.6
25°	612.7	590.7	575.4	595.5	621.3
27.5°	554.3	527.5	510.3	533.2	562.0
30°	495.9	467.2	449.0	472.0	503.6
32.5°	436.5	408.8	389.6	414.5	445.2
35°	380.1	352.3	335.1	358.0	383.9
37.5°	324.5	298.7	285.3	303.5	332.2
40°	274.8	251.8	240.3	256.6	280.5
42.5°	231.7	210.6	201.0	214.4	237.4
45°	191.5	176.1	166.6	179.0	198.2
47.5°	160.8	147.4	139.8	150.3	165.6
50°	135.0	124.5	117.8	126.4	138.8
52.5°	113.0	104.3	98.6	106.3	115.8
55°	91.9	88.1	83.3	90.0	93.8
57.5°	72.8	71.8	71.8	72.8	73.7
60°	58.4	58.4	61.3	59.4	58.4
62.5°	45.0	46.9	51.7	46.9	45.0
65°	35.4	37.3	40.2	37.3	34.5
67.5°	26.8	28.7	30.6	28.7	25.8
70°	20.1	22.0	23.0	22.0	20.1
72.5°	14.4	15.3	15.3	15.3	13.4
75°	8.6	9.6	9.6	9.6	8.6
77.5°	2.9	4.8	4.8	4.8	2.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)