

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: P238083

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-64SNDC-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1089.4 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

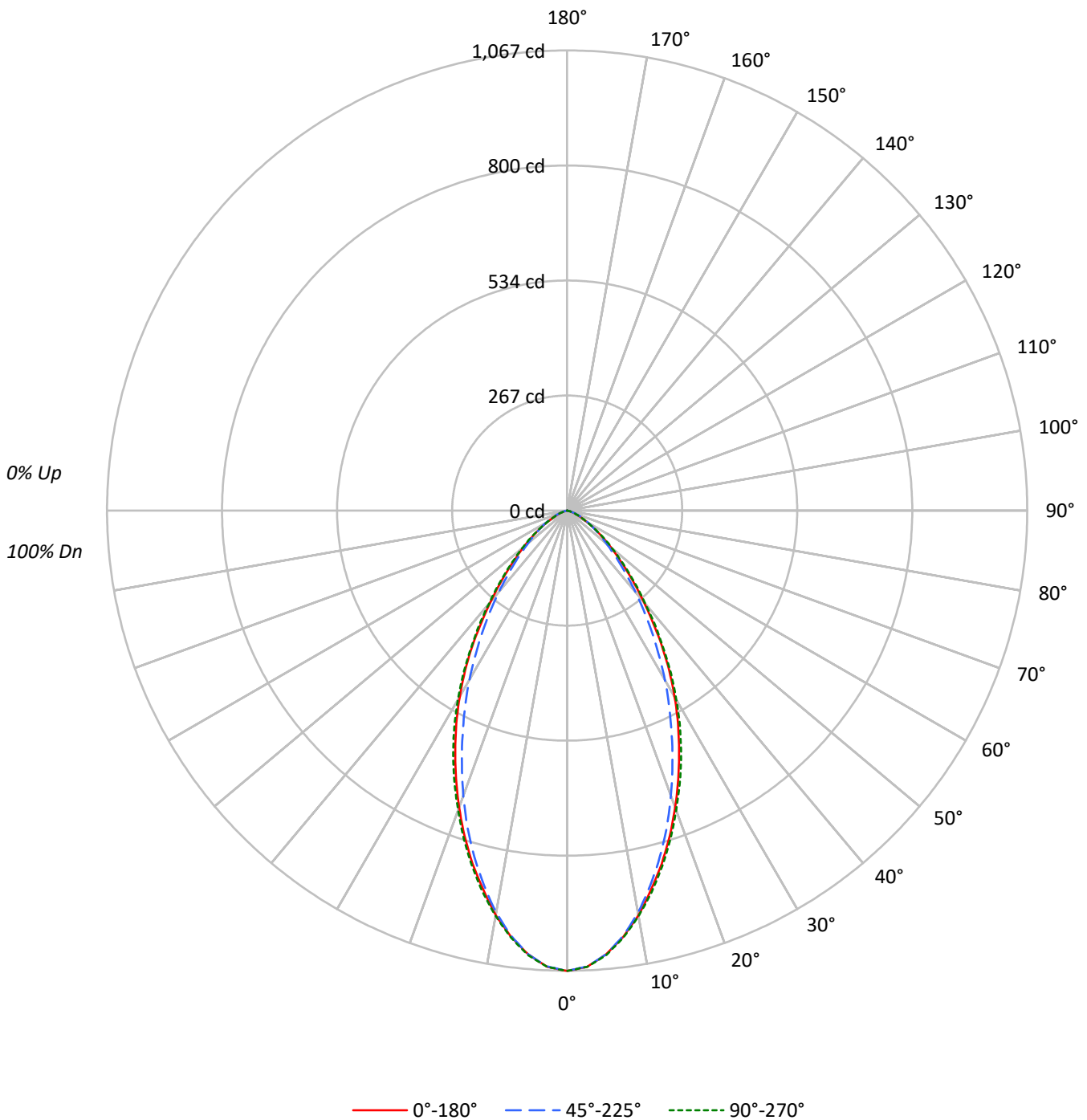
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P238083

CATALOG NUMBER: PRS610D010-S6M12-64SND-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P238083

CATALOG NUMBER: PRS610D010-S6M12-64SND-3000K

**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	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	45°	90°
0°	45958	45958	45958
5°	44646	44646	44729
10°	41648	41394	41731
15°	37768	37041	38022
20°	33558	32243	33865
25°	29155	27245	29696
30°	24749	22561	25176
35°	20126	17913	20378
40°	15552	13826	15822
45°	11715	10437	12123
50°	8848	7951	9170
55°	6396	6178	6613
60°	4538	4943	4616
65°	3117	3606	3117
70°	2052	2404	2052
75°	948	1115	948
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238083

CATALOG NUMBER: PRS610D010-S6M12-64SNDC-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	8.8
10°-20°	234.2	21.5
20°-30°	272.5	25.0
30°-40°	225.4	20.7
40°-50°	142.2	13.1
50°-60°	77.4	7.1
60°-70°	34.0	3.1
70°-80°	7.8	0.7
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°	602.7	55.3
0°-40°	828.1	76.0
0°-60°	1047.6	96.2
0°-90°	1089.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1033	1034	1033	1034	1035	96
15°	847	838	831	842	853	236
25°	614	590	574	597	625	281
35°	383	354	341	360	388	238
45°	192	177	171	180	199	151
55°	85	84	82	86	88	79
65°	31	34	35	34	31	32
75°	6	7	7	8	6	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238083

CATALOG NUMBER: PRS610D010-S6M12-64SNDC-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1067.4	1067.4	1067.4	1067.4	1067.4
2.5°	1058.8	1057.9	1057.9	1058.8	1058.8
5°	1033.0	1033.9	1033.0	1033.9	1034.9
7.5°	996.6	995.6	994.7	997.6	998.5
10°	952.6	949.7	946.8	951.6	954.5
12.5°	899.9	895.1	890.3	898.0	905.7
15°	847.3	837.7	831.0	842.5	853.0
17.5°	790.8	778.3	768.8	782.2	797.5
20°	732.4	716.1	703.7	719.9	739.1
22.5°	673.0	652.9	637.6	658.7	682.6
25°	613.7	589.7	573.5	597.4	625.1
27.5°	556.2	528.5	512.2	535.2	566.8
30°	497.8	469.1	453.8	476.8	506.4
32.5°	440.4	411.7	394.4	417.4	448.0
35°	382.9	354.2	340.8	360.0	387.7
37.5°	325.5	301.6	291.0	307.3	335.1
40°	276.7	254.7	246.0	258.5	281.5
42.5°	231.7	211.6	204.9	217.3	239.3
45°	192.4	177.1	171.4	180.0	199.1
47.5°	158.9	147.4	142.6	151.3	164.7
50°	132.1	123.5	118.7	125.4	136.9
52.5°	108.2	102.4	98.6	104.4	112.0
55°	85.2	84.2	82.3	86.2	88.1
57.5°	68.0	68.0	68.9	68.9	68.9
60°	52.7	54.6	57.4	55.5	53.6
62.5°	40.2	43.1	46.0	43.1	41.2
65°	30.6	33.5	35.4	33.5	30.6
67.5°	23.0	24.9	26.8	24.9	23.0
70°	16.3	18.2	19.1	18.2	16.3
72.5°	10.5	12.4	12.4	12.4	10.5
75°	5.7	6.7	6.7	7.7	5.7
77.5°	1.0	1.9	2.9	2.9	1.0
80°	0.0	0.0	0.0	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)