

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: P237963

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-64SMDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1019.5 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

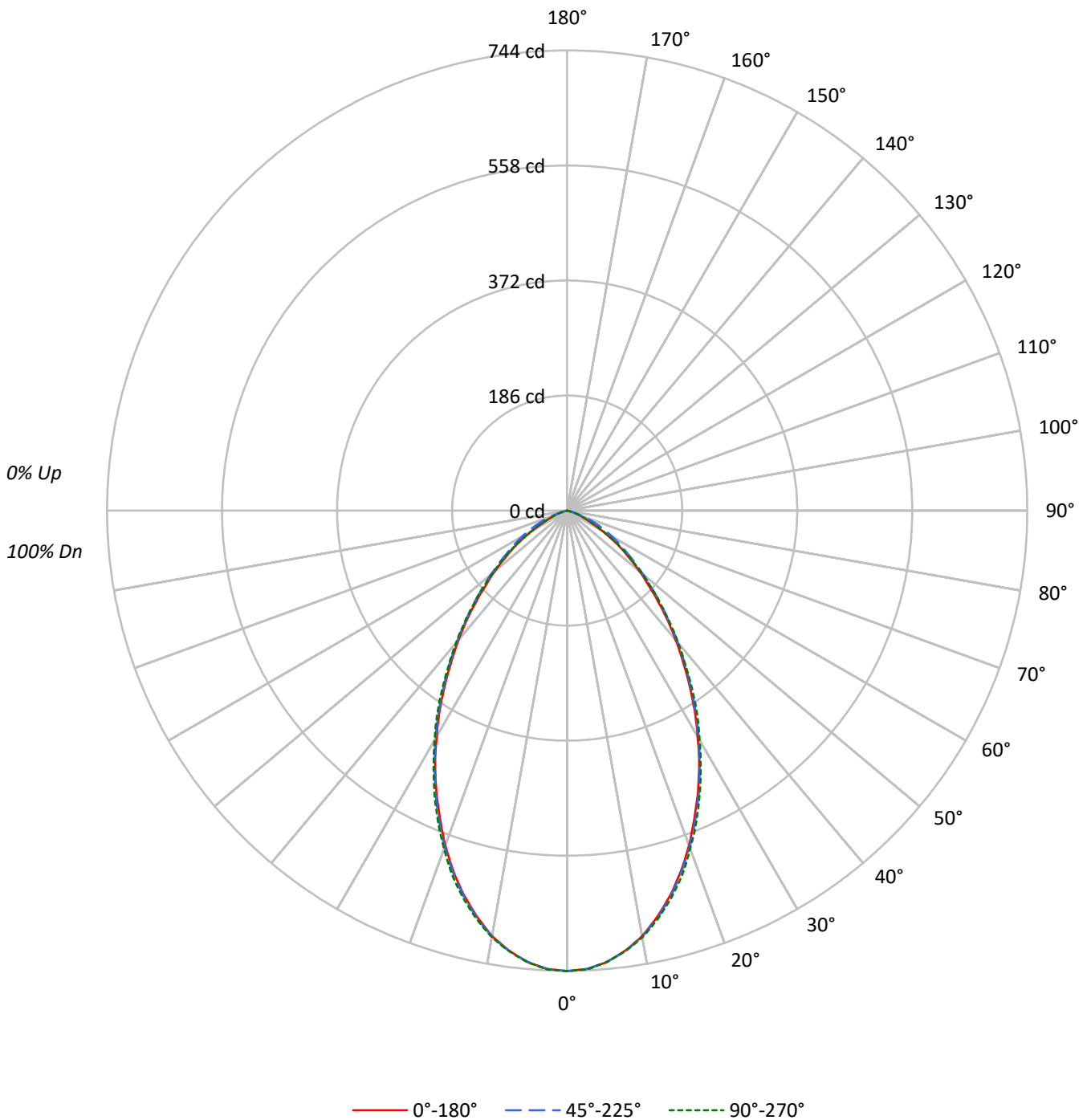
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82					80				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74					72				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66					64				
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60					58				
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54					53				
7	75	63	56	51	73	62	55	51	61	55	50	60	54	50	58	53	50					48				
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46					44				
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42					40				
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39					37				

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

	0°	45°	90°
0°	32055	32055	32055
5°	31680	31641	31680
10°	30543	30582	30626
15°	28706	28791	28920
20°	26396	26525	26657
25°	23777	23910	24095
30°	20980	21169	21313
35°	18107	18307	18512
40°	15327	15597	15704
45°	12647	13055	12994
50°	10255	10771	10510
55°	8047	8760	8257
60°	5606	7251	5769
65°	3606	5552	3606
70°	2404	3248	2404
75°	948	1431	948
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	6.8
10°-20°	180.7	17.7
20°-30°	230.5	22.6
30°-40°	217.9	21.4
40°-50°	165.5	16.2
50°-60°	102.2	10.0
60°-70°	44.6	4.4
70°-80°	9.3	0.9
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°	480.1	47.1
0°-40°	697.9	68.5
0°-60°	965.6	94.7
0°-90°	1019.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1019.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	733	733	732	733	733	69
15°	644	644	646	648	649	180
25°	500	500	503	505	507	229
35°	344	347	348	351	352	215
45°	208	213	214	217	213	161
55°	107	114	117	116	110	96
65°	35	41	54	42	35	37
75°	6	9	9	9	6	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	744.5	744.5	744.5	744.5	744.5
2.5°	741.6	741.6	741.6	741.6	742.6
5°	733.0	733.0	732.1	733.0	733.0
7.5°	717.7	718.7	718.7	718.7	718.7
10°	698.6	698.6	699.5	700.5	700.5
12.5°	672.7	673.7	674.6	676.6	676.6
15°	644.0	644.0	645.9	647.8	648.8
17.5°	611.5	611.5	613.4	615.3	618.2
20°	576.1	576.1	578.9	581.8	581.8
22.5°	537.8	537.8	541.6	542.6	545.5
25°	500.5	500.5	503.3	505.3	507.2
27.5°	462.2	461.2	464.1	466.0	467.9
30°	422.0	422.0	425.8	425.8	428.7
32.5°	383.7	383.7	386.6	388.5	391.4
35°	344.5	347.4	348.3	351.2	352.2
37.5°	307.2	312.0	312.0	315.8	313.9
40°	272.7	275.6	277.5	279.4	279.4
42.5°	240.2	244.0	244.0	246.9	245.9
45°	207.7	213.4	214.4	217.2	213.4
47.5°	178.0	184.7	185.6	187.6	185.6
50°	153.1	157.9	160.8	160.8	156.9
52.5°	128.2	134.0	136.8	136.8	132.1
55°	107.2	113.9	116.7	115.8	110.0
57.5°	85.2	92.8	99.5	95.7	88.0
60°	65.1	74.6	84.2	76.6	67.0
62.5°	46.9	56.5	68.9	56.5	48.8
65°	35.4	41.1	54.5	42.1	35.4
67.5°	25.8	29.7	40.2	30.6	25.8
70°	19.1	22.0	25.8	22.0	19.1
72.5°	12.4	15.3	15.3	15.3	12.4
75°	5.7	8.6	8.6	8.6	5.7
77.5°	0.0	1.9	3.8	1.9	0.0
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)