

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: P253038

Luminaire Tested: **PRS610D010-S6M12-64SWDMB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-64SWDMB  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

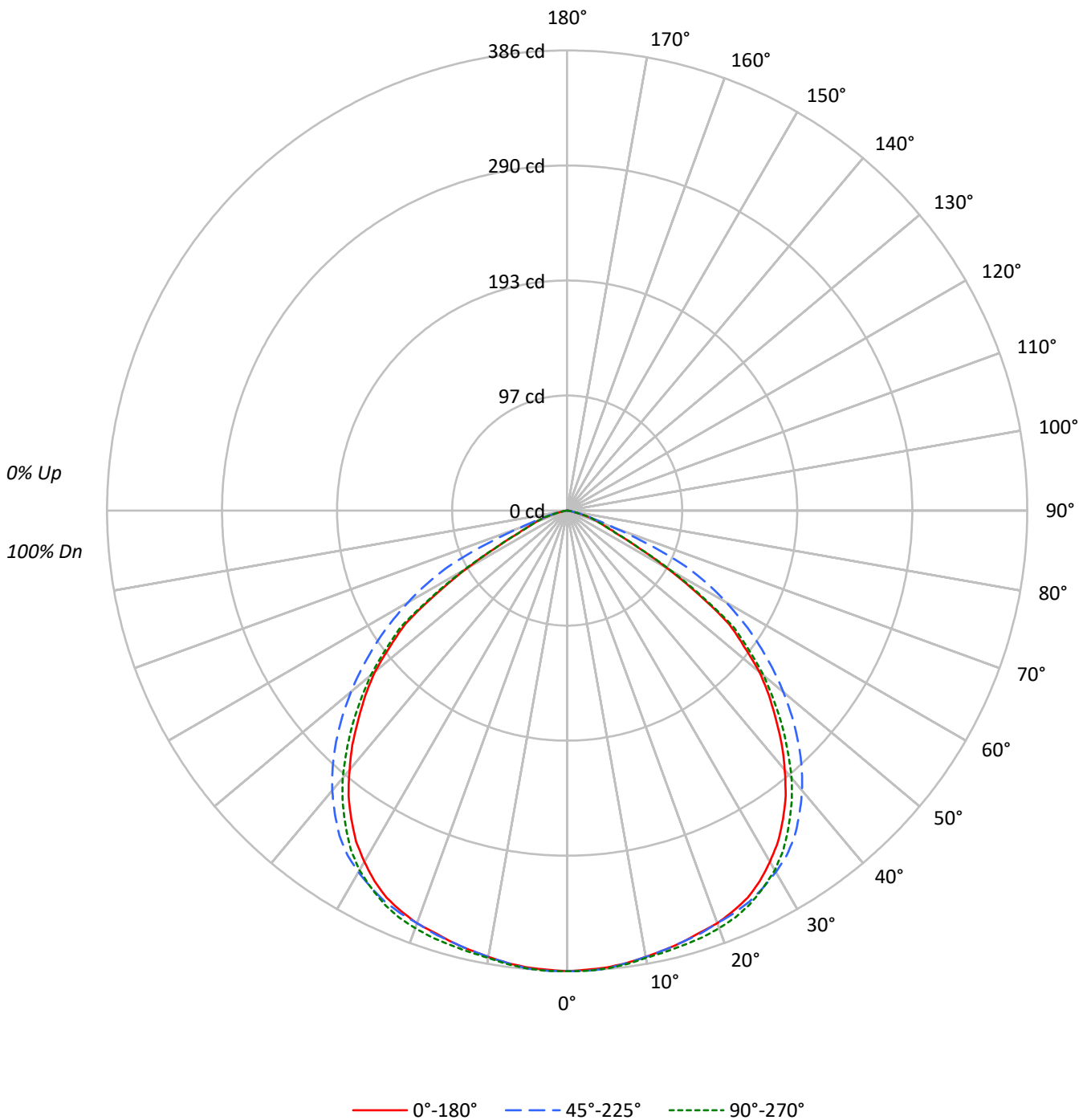
Lumens per Lamp: N/A  
Luminaire Lumens: 963.8 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

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

	0°	45°	90°
0°	16637	16637	16637
5°	16622	16661	16661
10°	16618	16618	16657
15°	16698	16698	16822
20°	16875	16875	17081
25°	17022	17193	17283
30°	16914	17411	17316
35°	16594	17498	17019
40°	15957	17233	16468
45°	15076	16684	15521
50°	14100	15862	14401
55°	12461	14773	12799
60°	8361	13278	8594
65°	4717	10993	4717
70°	3537	5363	3424
75°	2113	2412	2262
80°	893	1116	893
85°	445	445	445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.6	3.8
10°-20°	106.2	11.0
20°-30°	166.4	17.3
30°-40°	203.2	21.1
40°-50°	202.1	21.0
50°-60°	159.5	16.6
60°-70°	71.4	7.4
70°-80°	16.6	1.7
80°-90°	1.7	0.2
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°	309.2	32.1
0°-40°	512.4	53.2
0°-60°	874.0	90.7
0°-90°	963.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	385	385	386	386	386	37
15°	375	374	375	376	377	106
25°	358	359	362	363	364	165
35°	316	322	333	328	324	197
45°	248	259	274	266	255	191
55°	166	179	197	182	170	142
65°	46	61	108	62	46	52
75°	13	15	14	15	14	14
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	386.4	386.4	386.4	386.4	386.4
2.5°	385.5	386.4	386.4	386.4	386.4
5°	384.6	384.6	385.5	385.5	385.5
7.5°	382.8	382.8	382.8	383.7	383.7
10°	380.1	380.1	380.1	381.0	381.0
12.5°	377.4	377.4	377.4	378.3	379.2
15°	374.6	373.7	374.6	375.6	377.4
17.5°	371.0	371.9	371.9	373.7	375.6
20°	368.3	368.3	368.3	371.0	372.8
22.5°	363.8	363.8	365.6	367.4	369.2
25°	358.3	359.2	361.9	362.9	363.8
27.5°	350.2	352.9	356.5	357.4	356.5
30°	340.2	343.8	350.2	349.2	348.3
32.5°	329.3	333.8	342.9	340.2	337.5
35°	315.7	322.0	332.9	328.4	323.8
37.5°	301.2	309.3	320.2	315.7	309.3
40°	283.9	293.9	306.6	300.3	293.0
42.5°	266.7	277.6	291.2	283.0	274.0
45°	247.6	259.4	274.0	265.8	254.9
47.5°	229.5	241.3	255.8	245.8	234.9
50°	210.5	221.3	236.8	225.9	215.0
52.5°	186.9	201.4	216.8	205.0	192.3
55°	166.0	178.7	196.8	182.3	170.5
57.5°	130.6	156.0	176.0	158.7	134.3
60°	97.1	121.6	154.2	125.2	99.8
62.5°	67.1	89.8	132.4	90.7	68.0
65°	46.3	60.8	107.9	61.7	46.3
67.5°	34.5	40.8	72.6	40.8	34.5
70°	28.1	29.9	42.6	29.9	27.2
72.5°	20.9	23.6	23.6	23.6	21.8
75°	12.7	15.4	14.5	15.4	13.6
77.5°	5.4	7.3	9.1	8.2	5.4
80°	3.6	3.6	4.5	3.6	3.6
82.5°	2.7	2.7	2.7	2.7	2.7
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)