

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: P238058

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-64SMDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1112.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

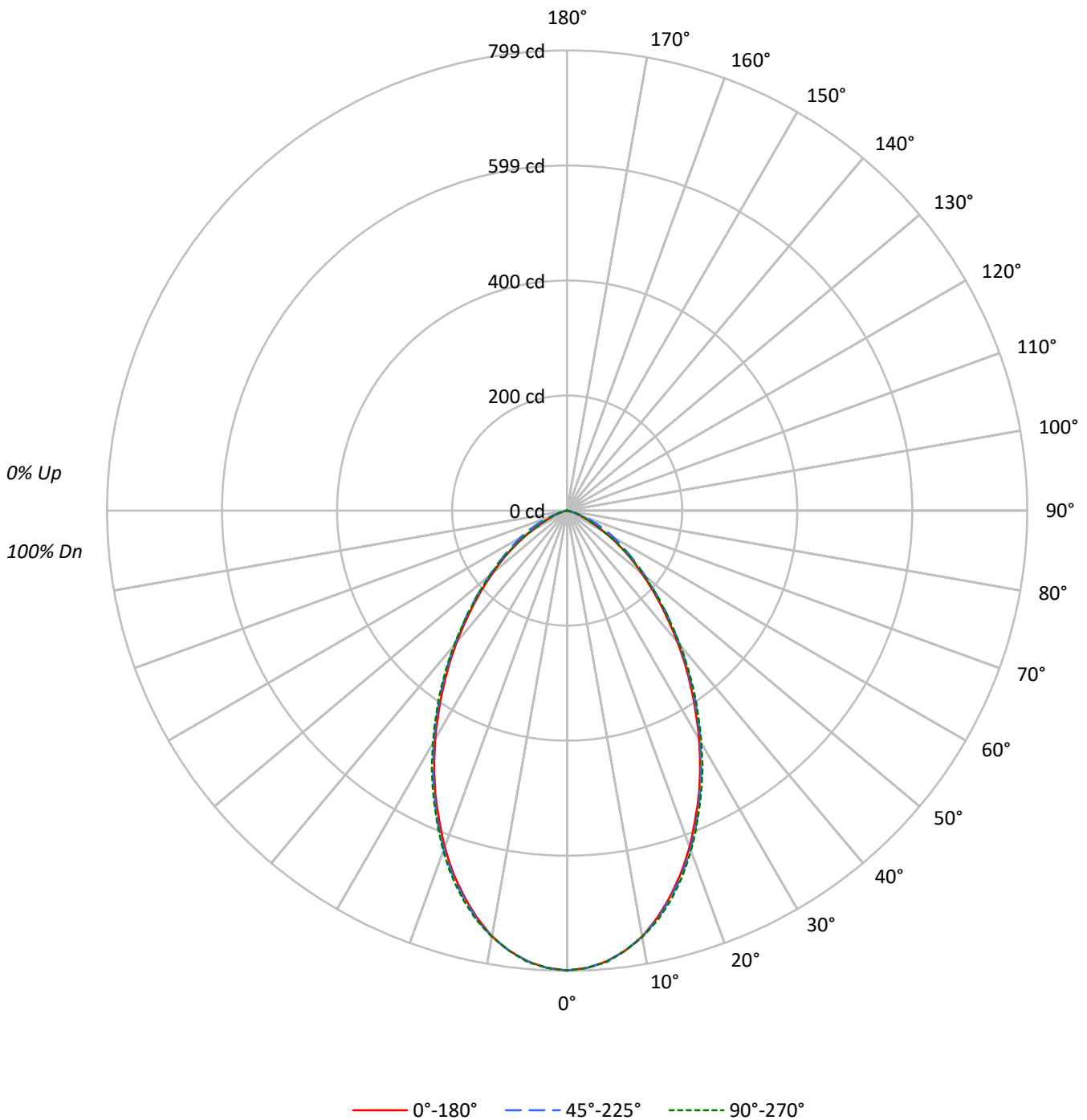
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	103	109	106	103	101	102	100	98	98	97	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	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	34389	34389	34389
5°	33958	33958	34001
10°	32821	32864	32864
15°	30877	31010	31144
20°	28486	28669	28806
25°	25739	25882	26072
30°	22760	22959	23158
35°	19700	20015	20173
40°	16744	17081	17137
45°	13877	14364	14181
50°	11246	11849	11581
55°	8925	9751	9075
60°	6372	8008	6372
65°	4177	6113	4279
70°	2769	3777	2895
75°	1331	1664	1331
80°	0	248	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	6.6
10°-20°	194.6	17.5
20°-30°	249.8	22.5
30°-40°	237.4	21.3
40°-50°	181.3	16.3
50°-60°	113.3	10.2
60°-70°	50.6	4.6
70°-80°	11.2	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°	518.3	46.6
0°-40°	755.7	68.0
0°-60°	1050.2	94.4
0°-90°	1112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1112.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	786	786	786	787	787	74
15°	693	694	696	698	699	194
25°	542	543	545	547	549	248
35°	375	379	381	382	384	234
45°	228	233	236	237	233	176
55°	119	126	130	128	121	107
65°	41	47	60	48	42	43
75°	8	10	10	10	8	9
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°	798.7	798.7	798.7	798.7	798.7
2.5°	794.7	794.7	794.7	794.7	794.7
5°	785.7	785.7	785.7	786.7	786.7
7.5°	770.7	770.7	770.7	771.7	770.7
10°	750.7	750.7	751.7	751.7	751.7
12.5°	723.7	724.7	725.7	726.7	727.7
15°	692.7	693.7	695.7	697.7	698.7
17.5°	658.7	658.7	662.7	665.7	665.7
20°	621.7	622.7	625.7	626.7	628.7
22.5°	580.8	583.8	586.7	587.7	588.7
25°	541.8	542.8	544.8	546.8	548.8
27.5°	499.8	500.8	503.8	504.8	508.8
30°	457.8	459.8	461.8	463.8	465.8
32.5°	415.8	417.8	420.8	421.8	423.8
35°	374.8	378.8	380.8	381.8	383.8
37.5°	335.9	339.9	340.9	343.9	343.9
40°	297.9	301.9	303.9	305.9	304.9
42.5°	260.9	265.9	267.9	270.9	267.9
45°	227.9	232.9	235.9	236.9	232.9
47.5°	196.9	202.9	203.9	204.9	202.9
50°	167.9	173.9	176.9	177.9	172.9
52.5°	143.9	148.9	151.9	150.9	146.9
55°	118.9	125.9	129.9	127.9	120.9
57.5°	96.0	104.0	110.0	105.0	98.0
60°	74.0	83.0	93.0	85.0	74.0
62.5°	55.0	64.0	77.0	64.0	55.0
65°	41.0	47.0	60.0	48.0	42.0
67.5°	30.0	35.0	45.0	35.0	31.0
70°	22.0	26.0	30.0	26.0	23.0
72.5°	15.0	18.0	18.0	18.0	15.0
75°	8.0	10.0	10.0	10.0	8.0
77.5°	1.0	3.0	4.0	3.0	1.0
80°	0.0	0.0	1.0	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)