

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: P238048

Luminaire Tested: **PRS610D010-S6M12-64SNDH-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-64SNDH-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1126.5 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

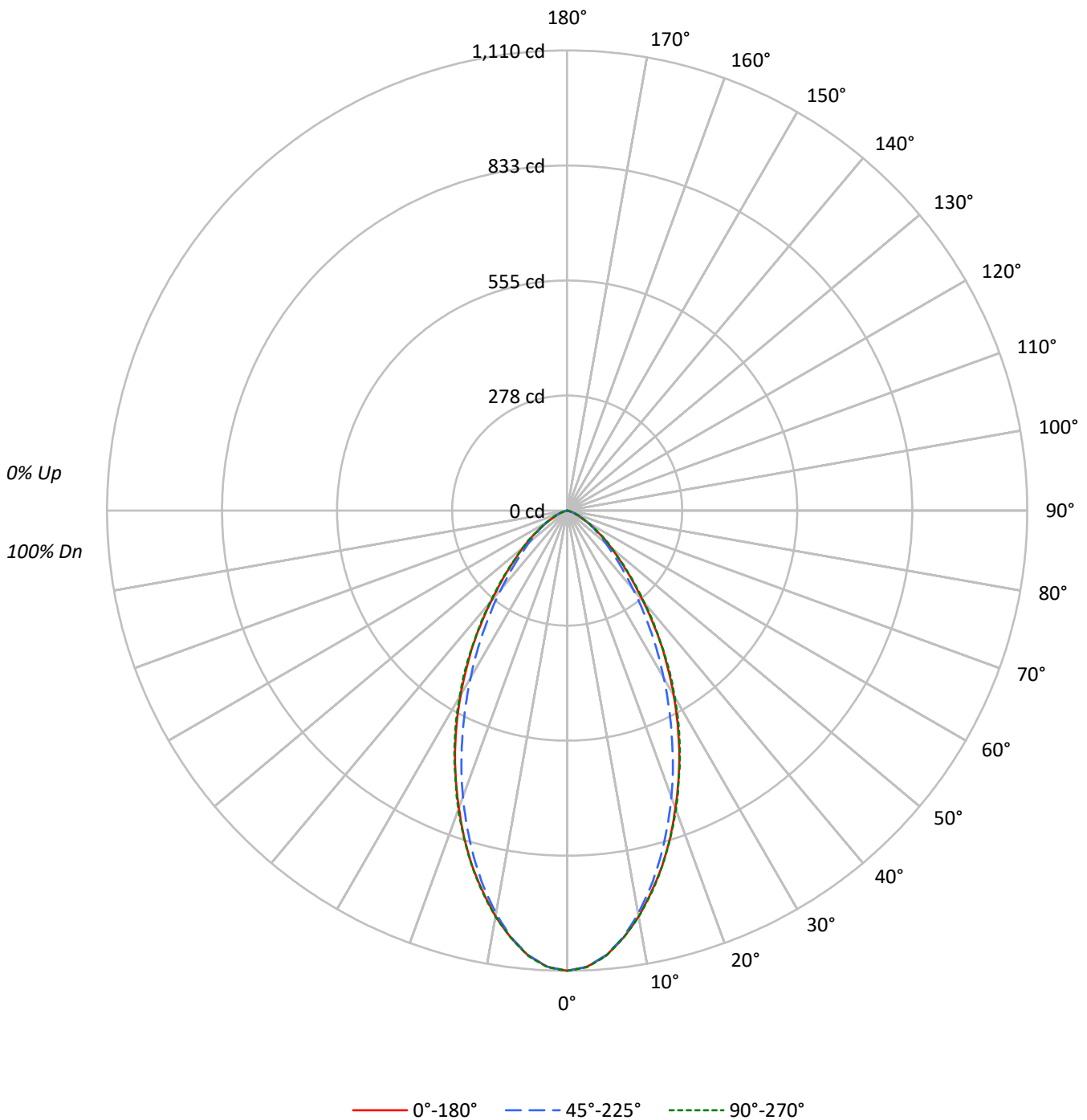
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	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	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

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

	0°	45°	90°
0°	47796	47796	47796
5°	46561	46518	46604
10°	43444	43143	43488
15°	39506	38664	39551
20°	34960	33681	35184
25°	30385	28352	30575
30°	25569	23143	25768
35°	20809	18249	20862
40°	15990	13922	16215
45°	12056	10479	12294
50°	9197	7998	9398
55°	6868	6275	6868
60°	4796	5055	4883
65°	3240	3851	3342
70°	2253	2505	2127
75°	998	1164	998
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	8.9
10°-20°	244.4	21.7
20°-30°	282.7	25.1
30°-40°	231.4	20.5
40°-50°	144.7	12.8
50°-60°	79.6	7.1
60°-70°	35.5	3.2
70°-80°	8.1	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°	627.1	55.7
0°-40°	858.5	76.2
0°-60°	1082.9	96.1
0°-90°	1126.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1077	1076	1076	1078	1078	100
15°	886	876	867	878	887	247
25°	640	615	597	618	644	292
35°	396	366	347	369	397	246
45°	198	181	172	184	202	156
55°	92	88	84	90	92	83
65°	32	35	38	35	33	33
75°	6	7	7	7	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°	1110.1	1110.1	1110.1	1110.1	1110.1
2.5°	1101.2	1102.2	1101.2	1102.2	1102.2
5°	1077.3	1076.3	1076.3	1078.3	1078.3
7.5°	1039.5	1038.5	1037.5	1039.5	1039.5
10°	993.7	991.8	986.8	992.8	994.7
12.5°	941.0	937.0	930.1	937.0	943.0
15°	886.3	876.4	867.4	878.4	887.3
17.5°	826.6	813.7	801.8	812.7	827.6
20°	763.0	748.0	735.1	749.0	767.9
22.5°	702.3	681.4	666.5	683.4	703.3
25°	639.6	614.7	596.8	617.7	643.6
27.5°	576.0	549.1	530.2	553.1	581.9
30°	514.3	485.4	465.5	490.4	518.3
32.5°	452.6	425.7	405.9	429.7	459.6
35°	395.9	366.1	347.2	369.0	396.9
37.5°	337.2	310.4	295.4	314.3	342.2
40°	284.5	260.6	247.7	264.6	288.5
42.5°	238.7	217.8	206.9	219.8	243.7
45°	198.0	181.0	172.1	184.0	201.9
47.5°	164.1	151.2	142.2	153.2	167.1
50°	137.3	125.3	119.4	127.3	140.3
52.5°	113.4	105.4	98.5	106.4	116.4
55°	91.5	87.5	83.6	89.5	91.5
57.5°	71.6	70.6	69.6	71.6	72.6
60°	55.7	56.7	58.7	56.7	56.7
62.5°	42.8	44.8	48.7	44.8	43.8
65°	31.8	34.8	37.8	34.8	32.8
67.5°	23.9	25.9	27.9	25.9	23.9
70°	17.9	18.9	19.9	18.9	16.9
72.5°	10.9	12.9	12.9	12.9	10.9
75°	6.0	7.0	7.0	7.0	6.0
77.5°	1.0	3.0	3.0	3.0	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)