

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: P252993

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252993  
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-S6M12-64SWDC  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1041.8 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

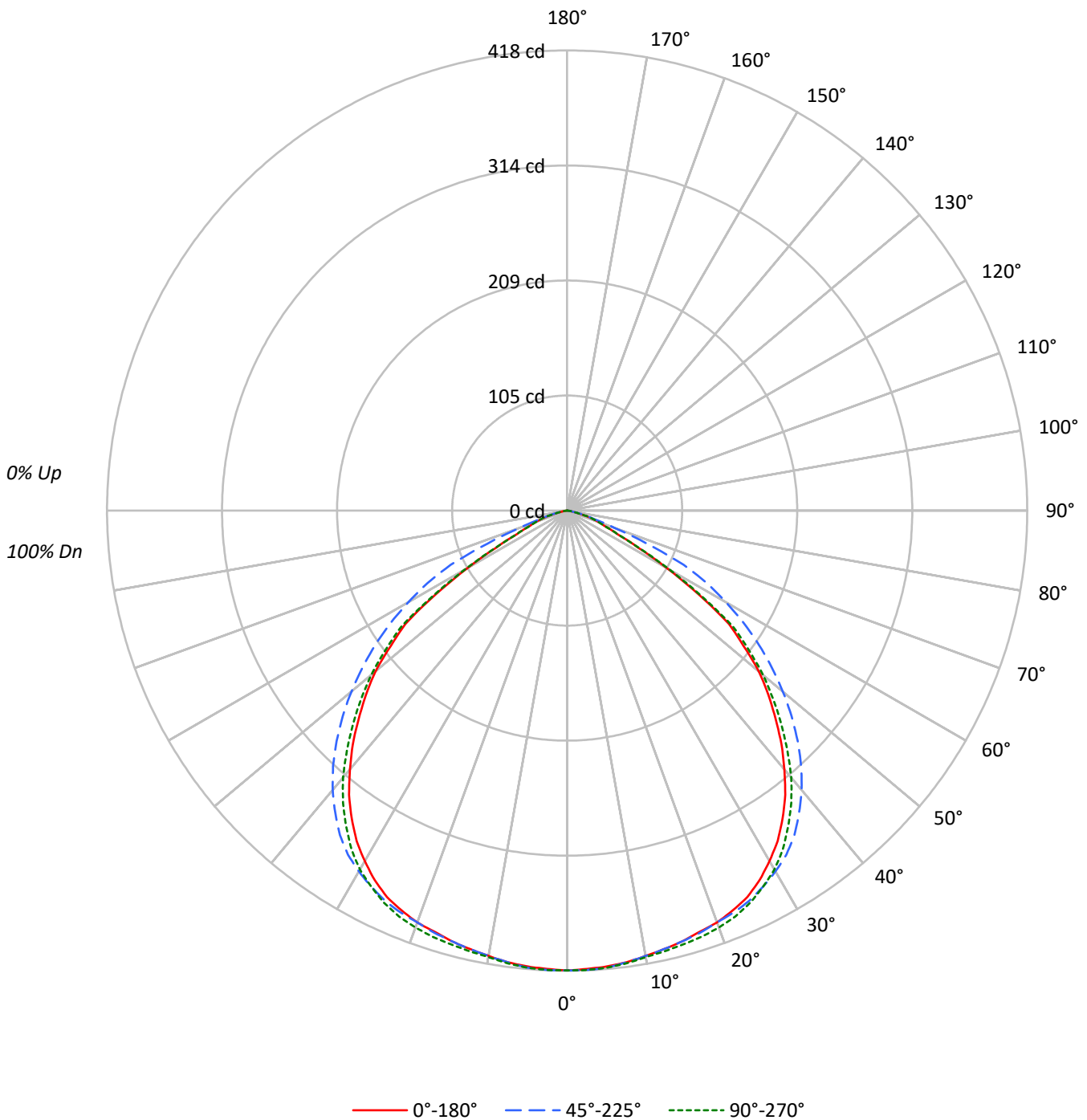
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	17984	17984	17984
5°	17967	18010	18010
10°	17960	17960	18004
15°	18053	18053	18182
20°	18240	18240	18465
25°	18399	18585	18680
30°	18281	18818	18718
35°	17934	18917	18396
40°	17249	18626	17800
45°	16300	18029	16775
50°	15239	17141	15567
55°	13467	15974	13835
60°	9033	14355	9291
65°	5094	11889	5094
70°	3827	5803	3701
75°	2279	2612	2445
80°	967	1215	967
85°	494	494	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	3.8
10°-20°	114.8	11.0
20°-30°	179.8	17.3
30°-40°	219.7	21.1
40°-50°	218.4	21.0
50°-60°	172.5	16.6
60°-70°	77.2	7.4
70°-80°	18.0	1.7
80°-90°	1.9	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°	334.2	32.1
0°-40°	553.9	53.2
0°-60°	944.7	90.7
0°-90°	1041.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	416	416	417	417	417	40
15°	405	404	405	406	408	114
25°	387	388	391	392	393	178
35°	341	348	360	355	350	213
45°	268	280	296	287	276	207
55°	179	193	213	197	184	153
65°	50	66	117	67	50	56
75°	14	17	16	17	15	16
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°	417.7	417.7	417.7	417.7	417.7
2.5°	416.7	417.7	417.7	417.7	417.7
5°	415.7	415.7	416.7	416.7	416.7
7.5°	413.8	413.8	413.8	414.8	414.8
10°	410.8	410.8	410.8	411.8	411.8
12.5°	407.9	407.9	407.9	408.9	409.9
15°	405.0	404.0	405.0	405.9	407.9
17.5°	401.0	402.0	402.0	404.0	405.9
20°	398.1	398.1	398.1	401.0	403.0
22.5°	393.2	393.2	395.2	397.1	399.1
25°	387.3	388.3	391.2	392.2	393.2
27.5°	378.5	381.4	385.3	386.3	385.3
30°	367.7	371.6	378.5	377.5	376.5
32.5°	355.9	360.8	370.6	367.7	364.8
35°	341.2	348.1	359.9	355.0	350.0
37.5°	325.5	334.4	346.1	341.2	334.4
40°	306.9	317.7	331.4	324.6	316.7
42.5°	288.3	300.0	314.7	305.9	296.1
45°	267.7	280.4	296.1	287.3	275.5
47.5°	248.1	260.8	276.5	265.7	254.0
50°	227.5	239.2	255.9	244.2	232.4
52.5°	202.0	217.7	234.3	221.6	207.9
55°	179.4	193.2	212.8	197.1	184.3
57.5°	141.2	168.7	190.2	171.6	145.1
60°	104.9	131.4	166.7	135.3	107.9
62.5°	72.6	97.1	143.2	98.1	73.5
65°	50.0	65.7	116.7	66.7	50.0
67.5°	37.3	44.1	78.4	44.1	37.3
70°	30.4	32.4	46.1	32.4	29.4
72.5°	22.6	25.5	25.5	25.5	23.5
75°	13.7	16.7	15.7	16.7	14.7
77.5°	5.9	7.8	9.8	8.8	5.9
80°	3.9	3.9	4.9	3.9	3.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)