

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: P253013

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253013  
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-S6M12-64SWDH-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 1029.2 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

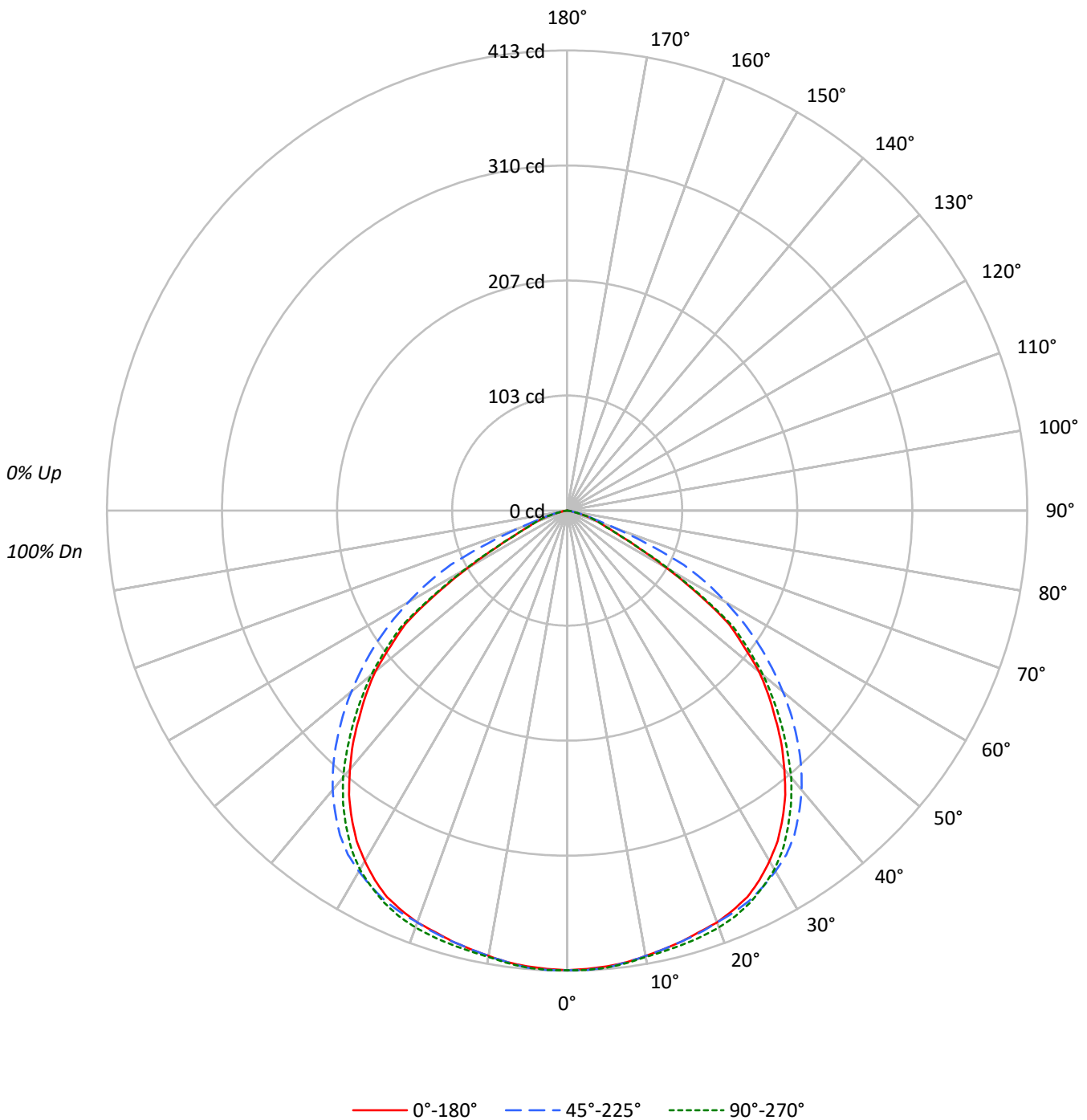
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	17765	17765	17765
5°	17751	17794	17794
10°	17746	17746	17785
15°	17830	17830	17964
20°	18021	18021	18240
25°	18176	18361	18452
30°	18057	18589	18494
35°	17718	18686	18176
40°	17041	18402	17587
45°	16099	17810	16574
50°	15051	16933	15379
55°	13309	15779	13669
60°	8921	14183	9179
65°	5033	11747	5033
70°	3777	5728	3663
75°	2262	2578	2412
80°	967	1190	967
85°	494	494	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.1	3.8
10°-20°	113.4	11.0
20°-30°	177.6	17.3
30°-40°	217.0	21.1
40°-50°	215.8	21.0
50°-60°	170.4	16.6
60°-70°	76.3	7.4
70°-80°	17.8	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°	330.1	32.1
0°-40°	547.2	53.2
0°-60°	933.3	90.7
0°-90°	1029.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1029.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	411	411	412	412	412	39
15°	400	399	400	401	403	113
25°	383	384	386	388	388	176
35°	337	344	356	351	346	210
45°	264	277	292	284	272	204
55°	177	191	210	195	182	152
65°	49	65	115	66	49	55
75°	14	16	16	16	14	15
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°	412.6	412.6	412.6	412.6	412.6
2.5°	411.7	412.6	412.6	412.6	412.6
5°	410.7	410.7	411.7	411.7	411.7
7.5°	408.8	408.8	408.8	409.7	409.7
10°	405.9	405.9	405.9	406.8	406.8
12.5°	403.0	403.0	403.0	403.9	404.9
15°	400.0	399.1	400.0	401.0	403.0
17.5°	396.2	397.1	397.1	399.1	401.0
20°	393.3	393.3	393.3	396.2	398.1
22.5°	388.4	388.4	390.4	392.3	394.2
25°	382.6	383.6	386.5	387.5	388.4
27.5°	373.9	376.8	380.7	381.6	380.7
30°	363.2	367.1	373.9	372.9	372.0
32.5°	351.6	356.5	366.1	363.2	360.3
35°	337.1	343.9	355.5	350.6	345.8
37.5°	321.6	330.3	341.9	337.1	330.3
40°	303.2	313.8	327.4	320.6	312.9
42.5°	284.8	296.4	310.9	302.2	292.5
45°	264.4	277.0	292.5	283.8	272.2
47.5°	245.1	257.7	273.2	262.5	250.9
50°	224.7	236.3	252.8	241.2	229.6
52.5°	199.5	215.0	231.5	218.9	205.4
55°	177.3	190.8	210.2	194.7	182.1
57.5°	139.5	166.6	187.9	169.5	143.4
60°	103.6	129.8	164.7	133.7	106.6
62.5°	71.7	95.9	141.4	96.9	72.6
65°	49.4	64.9	115.3	65.9	49.4
67.5°	36.8	43.6	77.5	43.6	36.8
70°	30.0	32.0	45.5	32.0	29.1
72.5°	22.3	25.2	25.2	25.2	23.2
75°	13.6	16.5	15.5	16.5	14.5
77.5°	5.8	7.7	9.7	8.7	5.8
80°	3.9	3.9	4.8	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)