

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: P253003

Luminaire Tested: **PRS610D010-S6M12-64SWDH-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253003  
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-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 990.8 lumens  
Efficiency: N/A  
Efficacy: 99.1 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

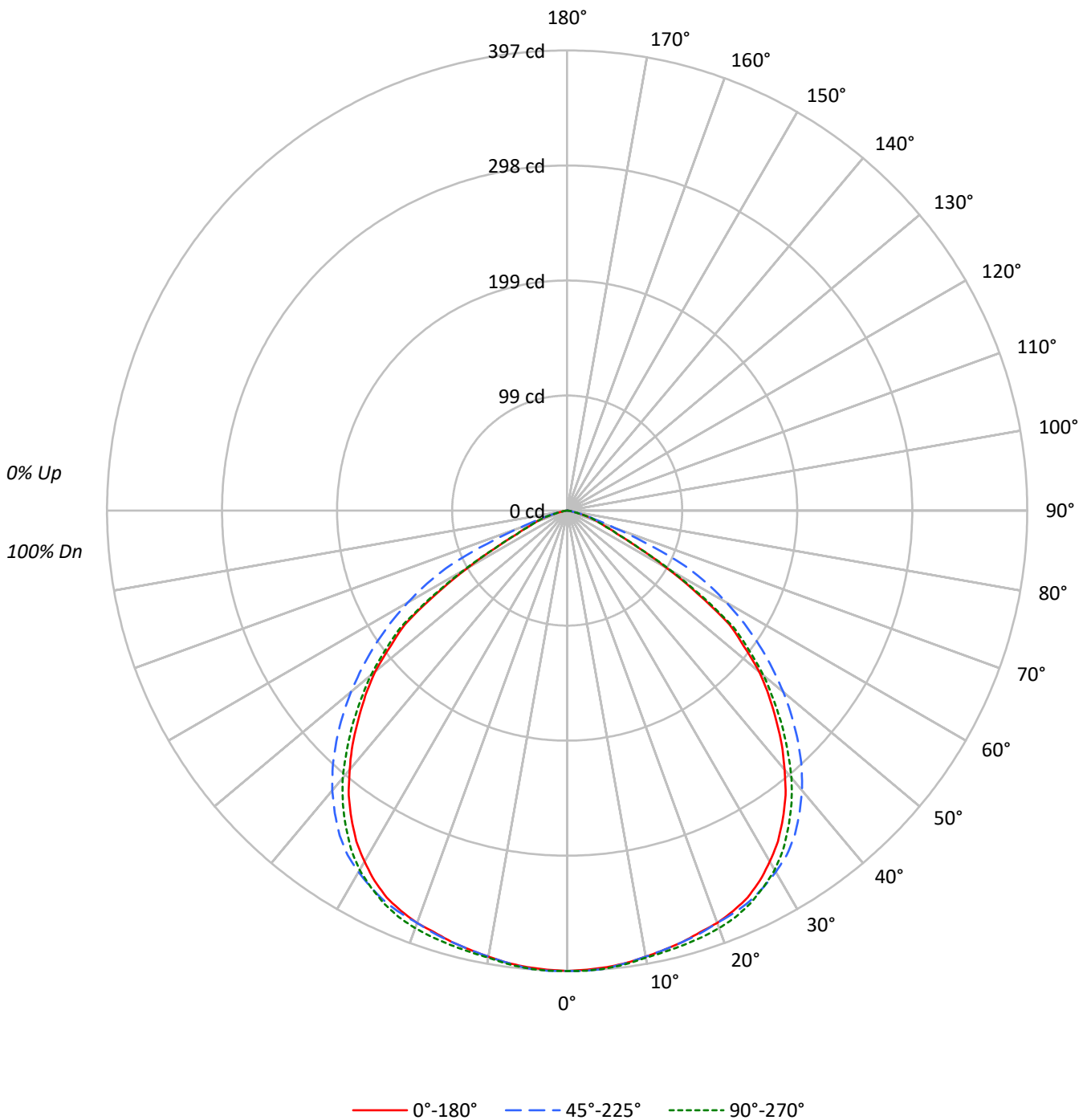
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	17106	17106	17106
5°	17089	17132	17132
10°	17086	17086	17125
15°	17170	17170	17295
20°	17347	17347	17562
25°	17501	17677	17767
30°	17386	17898	17803
35°	17056	17992	17498
40°	16406	17716	16929
45°	15503	17147	15959
50°	14495	16304	14803
55°	12814	15193	13159
60°	8594	13649	8835
65°	4849	11308	4849
70°	3638	5514	3525
75°	2179	2479	2329
80°	917	1165	917
85°	445	445	445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.6	3.8
10°-20°	109.2	11.0
20°-30°	171.0	17.3
30°-40°	209.0	21.1
40°-50°	207.7	21.0
50°-60°	164.0	16.6
60°-70°	73.4	7.4
70°-80°	17.1	1.7
80°-90°	1.8	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°	317.8	32.1
0°-40°	526.8	53.2
0°-60°	898.6	90.7
0°-90°	990.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	990.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	397	397	397	397	397	
5°	395	395	396	396	396	38
15°	385	384	385	386	388	109
25°	368	369	372	373	374	169
35°	324	331	342	338	333	202
45°	255	267	282	273	262	196
55°	171	184	202	188	175	146
65°	48	62	111	63	48	53
75°	13	16	15	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°	397.3	397.3	397.3	397.3	397.3
2.5°	396.4	397.3	397.3	397.3	397.3
5°	395.4	395.4	396.4	396.4	396.4
7.5°	393.6	393.6	393.6	394.5	394.5
10°	390.8	390.8	390.8	391.7	391.7
12.5°	388.0	388.0	388.0	388.9	389.8
15°	385.2	384.2	385.2	386.1	388.0
17.5°	381.4	382.4	382.4	384.2	386.1
20°	378.6	378.6	378.6	381.4	383.3
22.5°	374.0	374.0	375.8	377.7	379.6
25°	368.4	369.3	372.1	373.0	374.0
27.5°	360.0	362.8	366.5	367.4	366.5
30°	349.7	353.5	360.0	359.1	358.1
32.5°	338.5	343.2	352.5	349.7	346.9
35°	324.5	331.1	342.3	337.6	332.9
37.5°	309.6	318.0	329.2	324.5	318.0
40°	291.9	302.2	315.2	308.7	301.2
42.5°	274.2	285.4	299.4	291.0	281.6
45°	254.6	266.7	281.6	273.3	262.1
47.5°	236.0	248.1	263.0	252.7	241.5
50°	216.4	227.6	243.4	232.2	221.0
52.5°	192.1	207.0	222.9	210.8	197.7
55°	170.7	183.7	202.4	187.5	175.3
57.5°	134.3	160.4	180.9	163.2	138.0
60°	99.8	125.0	158.5	128.7	102.6
62.5°	69.0	92.3	136.2	93.3	69.9
65°	47.6	62.5	111.0	63.4	47.6
67.5°	35.4	42.0	74.6	42.0	35.4
70°	28.9	30.8	43.8	30.8	28.0
72.5°	21.5	24.2	24.2	24.2	22.4
75°	13.1	15.9	14.9	15.9	14.0
77.5°	5.6	7.5	9.3	8.4	5.6
80°	3.7	3.7	4.7	3.7	3.7
82.5°	2.8	2.8	2.8	2.8	2.8
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)