

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: P253058

Luminaire Tested: **PRS610D010-S6M12-61SWDC-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-61SWDC-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 966.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

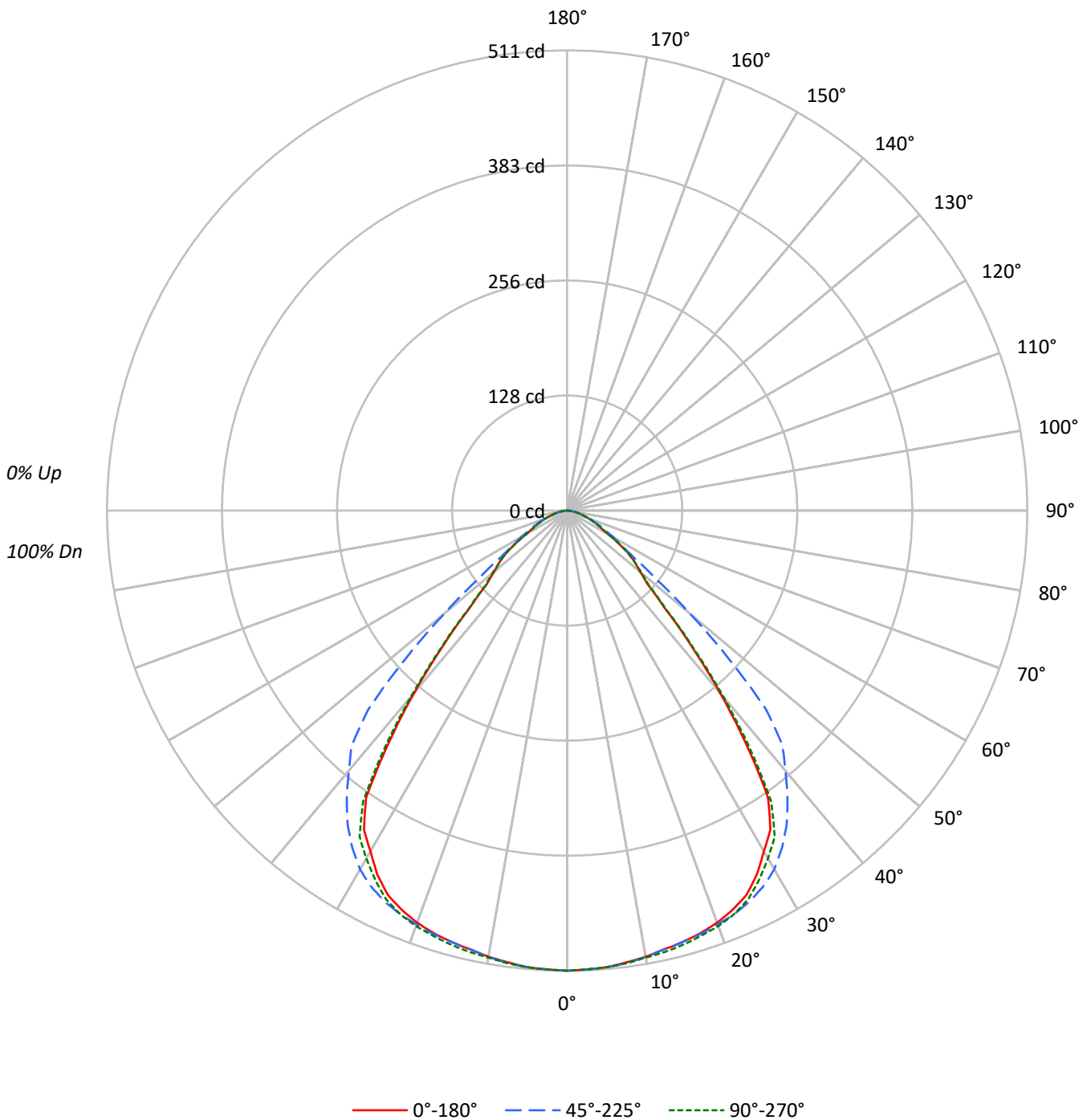
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

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

	0°	45°	90°
0°	22001	22001	22001
5°	21999	21999	21999
10°	21991	21991	22035
15°	22109	22109	22243
20°	22314	22405	22497
25°	22376	22756	22613
30°	21726	22870	22174
35°	20446	22339	20762
40°	14838	21189	15175
45°	9316	18998	9499
50°	7100	11923	7234
55°	6230	6681	6230
60°	4564	5081	4564
65°	3769	4075	3769
70°	3147	3273	3147
75°	2662	2662	2662
80°	2232	2232	2232
85°	1976	1976	1976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	5.0
10°-20°	140.6	14.6
20°-30°	218.7	22.6
30°-40°	250.0	25.9
40°-50°	167.2	17.3
50°-60°	80.0	8.3
60°-70°	39.0	4.0
70°-80°	17.6	1.8
80°-90°	4.5	0.5
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°	407.7	42.2
0°-40°	657.7	68.1
0°-60°	904.9	93.7
0°-90°	966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	966.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	509	509	509	509	509	48
15°	496	496	496	498	499	140
25°	471	474	479	478	476	216
35°	389	411	425	417	395	231
45°	153	197	312	200	156	127
55°	83	89	89	90	83	72
65°	37	38	40	38	37	37
75°	16	16	16	16	16	17
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	511	511	511	511	511
2.5°	510	510	510	510	510
5°	509	509	509	509	509
7.5°	506	506	507	506	507
10°	503	503	503	504	504
12.5°	499	499	499	501	502
15°	496	496	496	498	499
17.5°	492	492	493	495	495
20°	487	488	489	491	491
22.5°	480	482	485	486	485
25°	471	474	479	478	476
27.5°	456	463	471	467	462
30°	437	448	460	452	446
32.5°	420	429	444	435	429
35°	389	411	425	417	395
37.5°	326	375	402	381	334
40°	264	316	377	320	270
42.5°	205	255	354	259	209
45°	153	197	312	200	156
47.5°	121	146	243	149	123
50°	106	116	178	118	108
52.5°	95	101	124	102	95
55°	83	89	89	90	83
57.5°	67	76	70	76	68
60°	53	60	59	60	53
62.5°	43	47	48	47	43
65°	37	38	40	38	37
67.5°	31	32	32	32	30
70°	25	26	26	26	25
72.5°	20	21	21	21	20
75°	16	16	16	16	16
77.5°	12	13	12	13	12
80°	9	9	9	9	9
82.5°	6	6	6	6	6
85°	4	4	4	4	4
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)