

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: P253089

Luminaire Tested: **PRS615D010-S6M12-61SWDMW-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253089  
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: PRS615D010-S6M12-61SWDMW-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1281.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

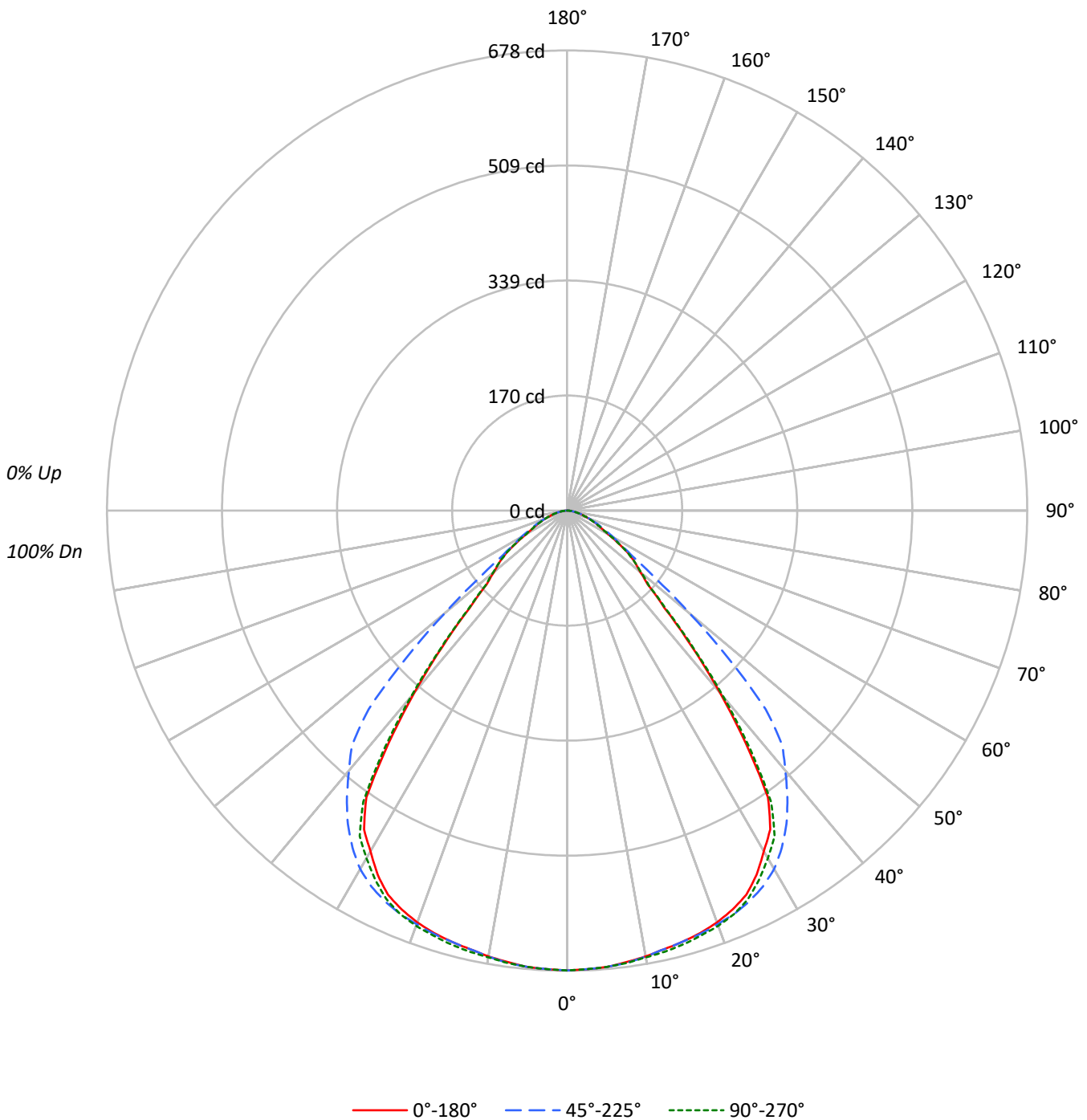
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

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

	0°	45°	90°
0°	29175	29175	29175
5°	29174	29174	29174
10°	29161	29161	29222
15°	29317	29317	29495
20°	29590	29714	29833
25°	29673	30176	29986
30°	28811	30327	29402
35°	27116	29624	27532
40°	19677	28097	20121
45°	12355	25190	12598
50°	9418	15808	9592
55°	8265	8858	8265
60°	6054	6734	6054
65°	5002	5400	5002
70°	4179	4343	4179
75°	3527	3527	3527
80°	2951	2951	2951
85°	2618	2618	2618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	5.0
10°-20°	186.4	14.6
20°-30°	290.1	22.6
30°-40°	331.5	25.9
40°-50°	221.8	17.3
50°-60°	106.1	8.3
60°-70°	51.7	4.0
70°-80°	23.3	1.8
80°-90°	6.0	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°	540.7	42.2
0°-40°	872.2	68.1
0°-60°	1200.0	93.7
0°-90°	1281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1281.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	675	675	675	675	675	64
15°	658	658	658	660	662	186
25°	625	629	635	634	631	286
35°	516	545	564	553	524	306
45°	203	261	414	265	207	168
55°	110	118	118	119	110	96
65°	49	50	53	50	49	49
75°	21	21	21	21	21	23
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	677.6	677.6	677.6	677.6	677.6
2.5°	676.3	676.3	676.3	676.3	676.3
5°	675.0	675.0	675.0	675.0	675.0
7.5°	671.0	671.0	672.3	671.0	672.3
10°	667.0	667.0	667.0	668.4	668.4
12.5°	661.7	661.7	661.7	664.4	665.7
15°	657.7	657.7	657.7	660.4	661.7
17.5°	652.4	652.4	653.8	656.4	656.4
20°	645.8	647.1	648.5	651.1	651.1
22.5°	636.5	639.2	643.2	644.5	643.2
25°	624.6	628.6	635.2	633.9	631.2
27.5°	604.7	614.0	624.6	619.3	612.7
30°	579.5	594.1	610.0	599.4	591.4
32.5°	557.0	568.9	588.8	576.9	568.9
35°	515.9	545.0	563.6	553.0	523.8
37.5°	432.3	497.3	533.1	505.2	442.9
40°	350.1	419.1	499.9	424.4	358.0
42.5°	271.9	338.2	469.4	343.5	277.2
45°	202.9	261.2	413.7	265.2	206.9
47.5°	160.5	193.6	322.2	197.6	163.1
50°	140.6	153.8	236.0	156.5	143.2
52.5°	126.0	133.9	164.4	135.3	126.0
55°	110.1	118.0	118.0	119.3	110.1
57.5°	88.8	100.8	92.8	100.8	90.2
60°	70.3	79.6	78.2	79.6	70.3
62.5°	57.0	62.3	63.7	62.3	57.0
65°	49.1	50.4	53.0	50.4	49.1
67.5°	41.1	42.4	42.4	42.4	39.8
70°	33.2	34.5	34.5	34.5	33.2
72.5°	26.5	27.8	27.8	27.8	26.5
75°	21.2	21.2	21.2	21.2	21.2
77.5°	15.9	17.2	15.9	17.2	15.9
80°	11.9	11.9	11.9	11.9	11.9
82.5°	8.0	8.0	8.0	8.0	8.0
85°	5.3	5.3	5.3	5.3	5.3
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)