

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: P238173

Luminaire Tested: **PRS610D010-S6M12-61SNDMW-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-61SNDMW-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1055.9 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

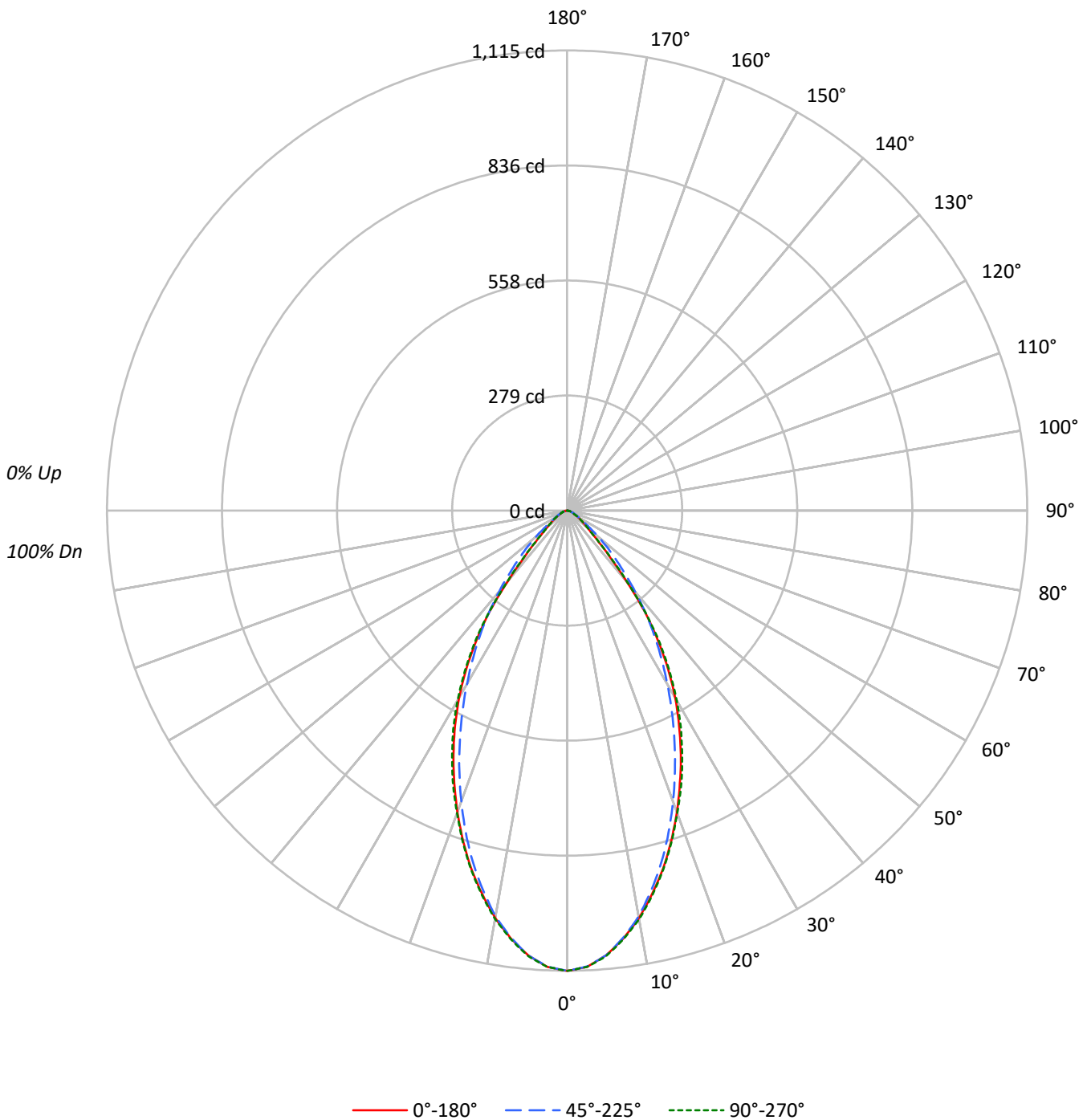
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65					65			
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60					60			
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56					56			
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53	52					52			
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49					49			
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45					45			

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

	0°	45°	90°
0°	48020	48020	48020
5°	46756	46756	46838
10°	43820	43654	43947
15°	40028	39341	40113
20°	35615	34346	35748
25°	30970	29240	31335
30°	26032	24132	26414
35°	20126	19322	20578
40°	12590	14422	12860
45°	6643	10029	6759
50°	4166	6538	4233
55°	3093	3806	3160
60°	2308	2635	2308
65°	1752	2048	1752
70°	1561	1687	1561
75°	1431	1431	1431
80°	1190	1190	1190
85°	939	939	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.7	9.5
10°-20°	248.0	23.5
20°-30°	290.5	27.5
30°-40°	232.1	22.0
40°-50°	110.3	10.4
50°-60°	43.4	4.1
60°-70°	19.3	1.8
70°-80°	9.2	0.9
80°-90°	2.5	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°	639.2	60.5
0°-40°	871.2	82.5
0°-60°	1024.9	97.1
0°-90°	1055.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1082	1082	1082	1083	1084	101
15°	898	888	883	890	900	250
25°	652	633	616	637	660	298
35°	383	369	368	373	392	235
45°	109	131	165	133	111	93
55°	41	46	51	47	42	38
65°	17	18	20	18	17	18
75°	9	9	9	9	9	9
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1115.3	1115.3	1115.3	1115.3	1115.3
2.5°	1106.6	1106.6	1105.7	1106.6	1106.6
5°	1081.8	1081.8	1081.8	1082.7	1083.7
7.5°	1045.4	1045.4	1043.5	1046.3	1047.3
10°	1002.3	999.4	998.5	1000.4	1005.2
12.5°	951.6	946.8	942.0	947.7	954.4
15°	898.0	888.4	882.6	890.3	899.9
17.5°	838.6	826.2	817.5	829.0	841.5
20°	777.3	763.9	749.6	765.8	780.2
22.5°	714.2	696.9	682.6	701.7	721.8
25°	651.9	632.8	615.5	636.6	659.6
27.5°	587.8	566.7	549.5	572.5	597.4
30°	523.6	501.6	485.4	509.3	531.3
32.5°	454.7	432.7	425.0	440.4	461.4
35°	382.9	368.6	367.6	373.4	391.5
37.5°	309.2	307.3	310.2	311.1	311.1
40°	224.0	244.1	256.6	248.9	228.8
42.5°	155.1	182.8	205.8	185.7	159.9
45°	109.1	131.2	164.7	133.1	111.0
47.5°	79.5	96.7	130.2	97.6	80.4
50°	62.2	72.8	97.6	71.8	63.2
52.5°	50.7	57.4	69.9	57.4	51.7
55°	41.2	46.0	50.7	46.9	42.1
57.5°	34.5	37.3	38.3	38.3	34.5
60°	26.8	29.7	30.6	29.7	26.8
62.5°	20.1	23.0	24.9	23.9	20.1
65°	17.2	18.2	20.1	18.2	17.2
67.5°	15.3	15.3	16.3	15.3	15.3
70°	12.4	13.4	13.4	13.4	12.4
72.5°	10.5	10.5	10.5	10.5	10.5
75°	8.6	8.6	8.6	8.6	8.6
77.5°	6.7	6.7	6.7	6.7	6.7
80°	4.8	4.8	4.8	5.7	4.8
82.5°	3.8	3.8	3.8	3.8	3.8
85°	1.9	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)