

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: P238281

Luminaire Tested: **PRS630D010-S6M24-61SMDC-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SMDC-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2660.8 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

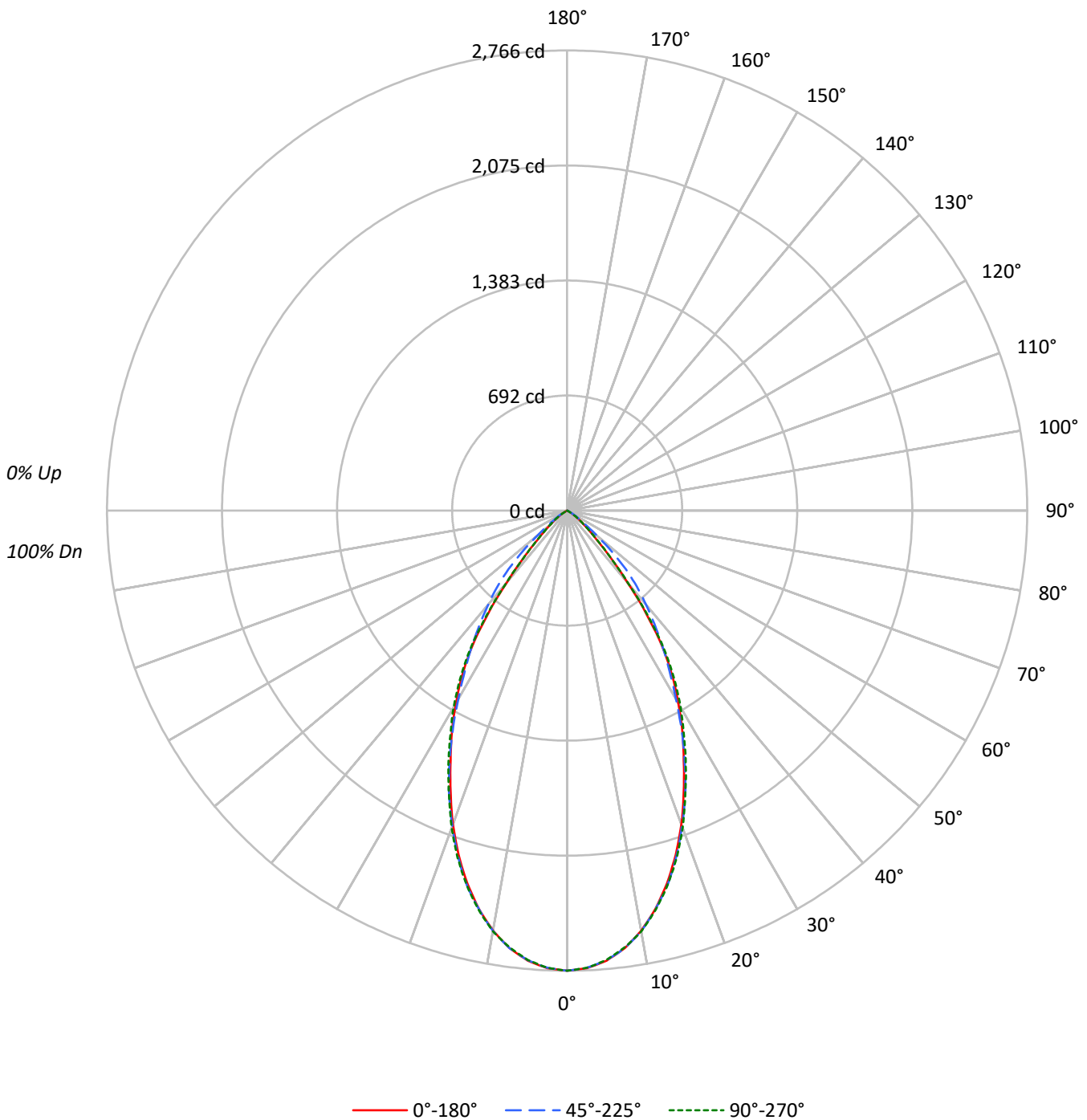
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62					62			
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58					58			
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54					54			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

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

	0°	45°	90°
0°	119083	119083	119083
5°	117382	117273	117165
10°	112085	112194	112303
15°	103382	103939	103939
20°	91986	92444	93012
25°	78790	79498	80210
30°	66456	64969	67823
35°	52304	52567	53481
40°	31818	41350	32380
45°	16099	30372	16398
50°	8855	15366	8855
55°	4864	6366	5052
60°	1292	2790	1292
65°	0	1019	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.4	9.6
10°-20°	648.3	24.4
20°-30°	765.5	28.8
30°-40°	624.9	23.5
40°-50°	286.8	10.8
50°-60°	74.5	2.8
60°-70°	6.3	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1668.2	62.7
0°-40°	2293.1	86.2
0°-60°	2654.5	99.8
0°-90°	2660.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2766	2766	2766	2766	2766	
5°	2716	2716	2713	2713	2711	254
15°	2319	2324	2332	2334	2332	646
25°	1658	1656	1673	1683	1688	762
35°	995	1022	1000	1038	1018	603
45°	264	327	499	329	269	226
55°	65	80	85	80	67	61
65°	0	0	10	0	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2765.8	2765.8	2765.8	2765.8	2765.8
2.5°	2753.3	2753.3	2750.8	2750.8	2750.8
5°	2715.9	2715.9	2713.4	2713.4	2710.9
7.5°	2653.5	2653.5	2653.5	2651.0	2648.5
10°	2563.7	2563.7	2566.2	2566.2	2568.7
12.5°	2451.5	2454.0	2454.0	2459.0	2459.0
15°	2319.3	2324.3	2331.8	2334.3	2331.8
17.5°	2169.7	2174.7	2182.2	2192.2	2189.7
20°	2007.6	2010.1	2017.6	2032.5	2030.0
22.5°	1830.5	1835.5	1855.5	1860.5	1855.5
25°	1658.5	1656.0	1673.4	1683.4	1688.4
27.5°	1501.3	1488.9	1491.4	1506.3	1521.3
30°	1336.7	1331.8	1306.8	1346.7	1364.2
32.5°	1174.6	1177.1	1144.7	1187.1	1197.1
35°	995.1	1022.5	1000.1	1037.5	1017.5
37.5°	780.6	855.4	862.9	867.9	800.5
40°	566.1	663.4	735.7	668.4	576.1
42.5°	394.0	473.8	621.0	483.8	391.5
45°	264.4	326.7	498.8	329.2	269.3
47.5°	184.5	219.5	361.6	222.0	184.5
50°	132.2	152.1	229.4	154.6	132.2
52.5°	97.3	109.7	139.7	109.7	97.3
55°	64.8	79.8	84.8	79.8	67.3
57.5°	39.9	52.4	54.9	52.4	37.4
60°	15.0	27.4	32.4	27.4	15.0
62.5°	2.5	7.5	20.0	10.0	2.5
65°	0.0	0.0	10.0	0.0	0.0
67.5°	0.0	0.0	2.5	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)