

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: P238176

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238176  
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: PRS630D010-S6M24-61SNDMW-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: 2750.6 lumens  
Efficiency: N/A  
Efficacy: 107.9 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

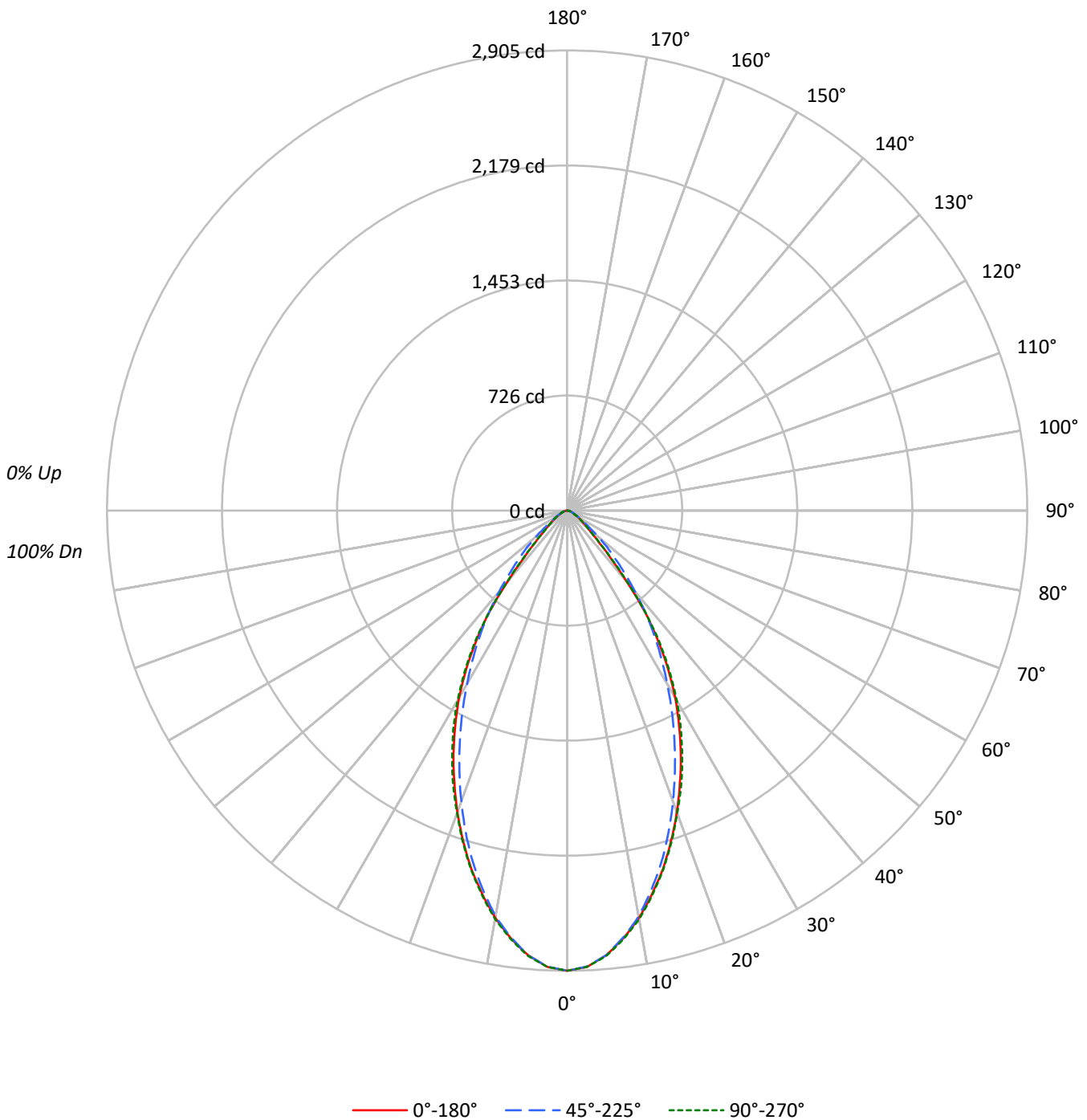
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	125085	125085	125085
5°	121790	121790	122006
10°	114148	113711	114476
15°	104264	102486	104487
20°	92779	89466	93122
25°	80676	76172	81626
30°	67818	62856	68807
35°	52430	50333	53607
40°	32796	37562	33498
45°	17311	26116	17615
50°	10858	17040	11025
55°	8047	9924	8235
60°	6011	6872	6011
65°	4574	5338	4574
70°	4079	4393	4079
75°	3726	3726	3726
80°	3099	3099	3099
85°	2470	2470	2470



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.2	9.5
10°-20°	646.1	23.5
20°-30°	756.7	27.5
30°-40°	604.5	22.0
40°-50°	287.4	10.4
50°-60°	113.0	4.1
60°-70°	50.3	1.8
70°-80°	24.0	0.9
80°-90°	6.5	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°	1665.0	60.5
0°-40°	2269.5	82.5
0°-60°	2669.8	97.1
0°-90°	2750.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2905	2905	2905	2905	2905	
5°	2818	2818	2818	2820	2823	262
15°	2339	2314	2299	2319	2344	652
25°	1698	1648	1603	1658	1718	776
35°	998	960	958	972	1020	613
45°	284	342	429	347	289	241
55°	107	120	132	122	110	99
65°	45	47	52	47	45	47
75°	22	22	22	22	22	24
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°	2905.2	2905.2	2905.2	2905.2	2905.2
2.5°	2882.7	2882.7	2880.2	2882.7	2882.7
5°	2817.9	2817.9	2817.9	2820.4	2822.9
7.5°	2723.1	2723.1	2718.1	2725.6	2728.1
10°	2610.9	2603.4	2600.9	2605.9	2618.4
12.5°	2478.7	2466.3	2453.8	2468.8	2486.2
15°	2339.1	2314.1	2299.2	2319.1	2344.1
17.5°	2184.5	2152.1	2129.6	2159.5	2192.0
20°	2024.9	1990.0	1952.6	1995.0	2032.4
22.5°	1860.3	1815.4	1778.0	1827.9	1880.2
25°	1698.2	1648.3	1603.4	1658.3	1718.2
27.5°	1531.1	1476.3	1431.4	1491.2	1556.1
30°	1364.1	1306.7	1264.3	1326.6	1384.0
32.5°	1184.5	1127.2	1107.2	1147.1	1202.0
35°	997.5	960.1	957.6	972.5	1019.9
37.5°	805.5	800.5	808.0	810.5	810.5
40°	583.5	635.9	668.3	648.4	596.0
42.5°	404.0	476.3	536.1	483.8	416.4
45°	284.3	341.6	428.9	346.6	289.3
47.5°	207.0	251.9	339.1	254.4	209.5
50°	162.1	189.5	254.4	187.0	164.6
52.5°	132.2	149.6	182.0	149.6	134.7
55°	107.2	119.7	132.2	122.2	109.7
57.5°	89.8	97.3	99.7	99.7	89.8
60°	69.8	77.3	79.8	77.3	69.8
62.5°	52.4	59.8	64.8	62.3	52.4
65°	44.9	47.4	52.4	47.4	44.9
67.5°	39.9	39.9	42.4	39.9	39.9
70°	32.4	34.9	34.9	34.9	32.4
72.5°	27.4	27.4	27.4	27.4	27.4
75°	22.4	22.4	22.4	22.4	22.4
77.5°	17.5	17.5	17.5	17.5	17.5
80°	12.5	12.5	12.5	15.0	12.5
82.5°	10.0	10.0	10.0	10.0	10.0
85°	5.0	5.0	5.0	5.0	5.0
87.5°	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)