

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: P253031

Luminaire Tested: **PRS630D010-S6M24-64SWDMW-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SWDMW-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW 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: 2799.2 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

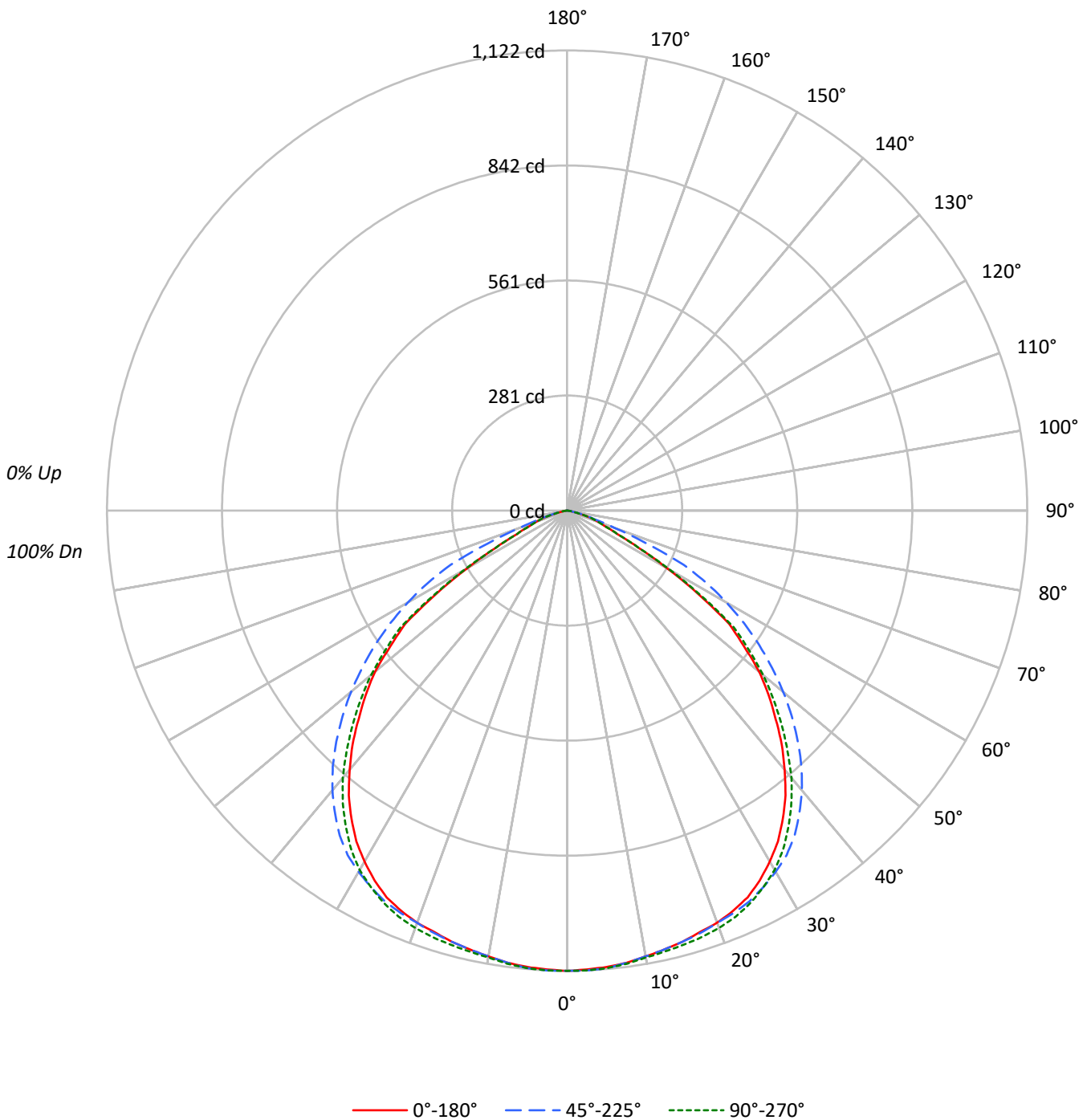
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88					88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76					76			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65					65			
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57					57			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28					28			

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

	0°	45°	90°
0°	48321	48321	48321
5°	48281	48394	48394
10°	48262	48262	48376
15°	48502	48502	48854
20°	49008	49008	49613
25°	49440	49939	50191
30°	49120	50562	50298
35°	48188	50821	49439
40°	46347	50051	47831
45°	43792	48444	45077
50°	40940	46057	41824
55°	36189	42915	37180
60°	24275	38569	24955
65°	13692	31939	13692
70°	10285	15585	9945
75°	6138	7020	6571
80°	2603	3273	2603
85°	1284	1284	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	3.8
10°-20°	308.4	11.0
20°-30°	483.2	17.3
30°-40°	590.3	21.1
40°-50°	586.9	21.0
50°-60°	463.4	16.6
60°-70°	207.4	7.4
70°-80°	48.3	1.7
80°-90°	5.0	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°	897.9	32.1
0°-40°	1488.2	53.2
0°-60°	2538.4	90.7
0°-90°	2799.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2799.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1117	1117	1120	1120	1120	106
15°	1088	1086	1088	1091	1096	308
25°	1041	1043	1051	1054	1056	478
35°	917	935	967	954	941	572
45°	719	754	796	772	740	555
55°	482	519	572	530	495	412
65°	134	176	314	179	134	150
75°	37	45	42	45	40	42
85°	3	3	3	3	3	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1122.3	1122.3	1122.3	1122.3	1122.3
2.5°	1119.7	1122.3	1122.3	1122.3	1122.3
5°	1117.1	1117.1	1119.7	1119.7	1119.7
7.5°	1111.8	1111.8	1111.8	1114.4	1114.4
10°	1103.9	1103.9	1103.9	1106.5	1106.5
12.5°	1096.0	1096.0	1096.0	1098.6	1101.3
15°	1088.1	1085.5	1088.1	1090.7	1096.0
17.5°	1077.5	1080.2	1080.2	1085.5	1090.7
20°	1069.6	1069.6	1069.6	1077.5	1082.8
22.5°	1056.5	1056.5	1061.7	1067.0	1072.3
25°	1040.7	1043.3	1051.2	1053.8	1056.5
27.5°	1017.0	1024.9	1035.4	1038.0	1035.4
30°	988.0	998.5	1017.0	1014.3	1011.7
32.5°	956.4	969.5	995.9	988.0	980.1
35°	916.8	935.3	966.9	953.7	940.6
37.5°	874.7	898.4	930.0	916.8	898.4
40°	824.6	853.6	890.5	872.1	851.0
42.5°	774.6	806.2	845.7	822.0	795.6
45°	719.2	753.5	795.6	771.9	740.3
47.5°	666.6	700.8	743.0	714.0	682.4
50°	611.2	642.8	687.6	656.0	624.4
52.5°	542.7	584.9	629.7	595.4	558.5
55°	482.1	519.0	571.7	529.6	495.3
57.5°	379.4	453.2	511.1	461.1	389.9
60°	281.9	353.0	447.9	363.6	289.8
62.5°	195.0	260.8	384.7	263.5	197.6
65°	134.4	176.5	313.5	179.2	134.4
67.5°	100.1	118.6	210.8	118.6	100.1
70°	81.7	86.9	123.8	86.9	79.0
72.5°	60.6	68.5	68.5	68.5	63.2
75°	36.9	44.8	42.2	44.8	39.5
77.5°	15.8	21.1	26.3	23.7	15.8
80°	10.5	10.5	13.2	10.5	10.5
82.5°	7.9	7.9	7.9	7.9	7.9
85°	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	2.6	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)