

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: P237996

Luminaire Tested: **PRS630D010-S6M24-64SNDMW-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SNDMW-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW 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: 2860.3 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

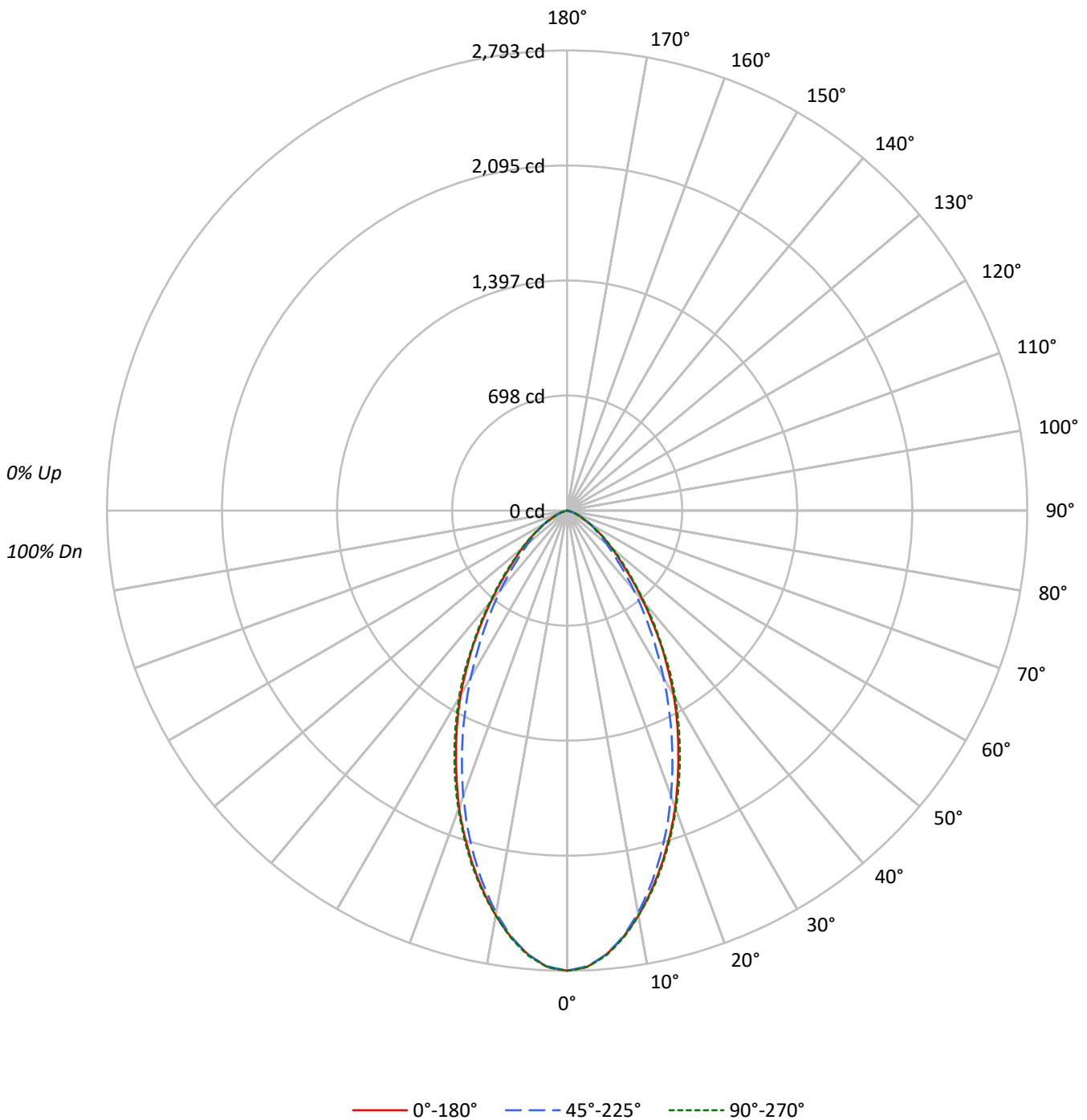
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68					68			
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62					62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57					57			
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52					52			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48					48			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

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

	0°	45°	90°
0°	120254	120254	120254
5°	116941	116941	117157
10°	109134	108373	109134
15°	98929	97039	99374
20°	87867	84440	88325
25°	75821	71198	76885
30°	64224	58148	65213
35°	52036	45875	52561
40°	40226	35179	41069
45°	30366	26420	31431
50°	23551	20544	24221
55°	17971	16289	18346
60°	13098	13743	13098
65°	9403	10667	9149
70°	6596	7528	6596
75°	3726	4142	3726
80°	1240	1240	1240
85°	1235	1235	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	8.8
10°-20°	613.3	21.4
20°-30°	708.9	24.8
30°-40°	581.6	20.3
40°-50°	367.6	12.9
50°-60°	208.7	7.3
60°-70°	99.1	3.5
70°-80°	27.7	1.0
80°-90°	2.0	0.1
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°	1573.7	55.0
0°-40°	2155.3	75.4
0°-60°	2731.5	95.5
0°-90°	2860.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2860.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2793	2793	2793	2793	2793	
5°	2706	2706	2706	2713	2711	252
15°	2219	2202	2177	2207	2229	619
25°	1596	1539	1499	1551	1618	732
35°	990	918	873	933	1000	617
45°	499	459	434	466	516	394
55°	239	229	217	234	244	217
65°	92	97	105	97	90	94
75°	22	25	25	25	22	25
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°	2793.0	2793.0	2793.0	2793.0	2793.0
2.5°	2773.0	2770.6	2768.1	2770.6	2773.0
5°	2705.7	2705.7	2705.7	2713.2	2710.7
7.5°	2611.0	2608.5	2606.0	2613.4	2615.9
10°	2496.2	2486.3	2478.8	2491.3	2496.2
12.5°	2361.6	2349.1	2334.1	2351.6	2369.1
15°	2219.4	2202.0	2177.0	2207.0	2229.4
17.5°	2069.8	2037.4	2012.5	2044.9	2079.8
20°	1917.7	1877.8	1842.9	1877.8	1927.7
22.5°	1755.6	1703.2	1668.3	1713.2	1775.5
25°	1596.0	1538.6	1498.7	1551.1	1618.4
27.5°	1443.9	1374.1	1329.2	1389.0	1463.8
30°	1291.8	1216.9	1169.6	1229.4	1311.7
32.5°	1137.1	1064.8	1015.0	1079.8	1159.6
35°	990.0	917.7	872.8	932.7	1000.0
37.5°	845.4	778.0	743.1	790.5	865.3
40°	715.7	655.9	625.9	668.3	730.7
42.5°	603.5	548.6	523.7	558.6	618.4
45°	498.7	458.8	433.9	466.3	516.2
47.5°	418.9	384.0	364.1	391.5	431.4
50°	351.6	324.2	306.7	329.2	361.6
52.5°	294.3	271.8	256.9	276.8	301.7
55°	239.4	229.4	217.0	234.4	244.4
57.5°	189.5	187.0	187.0	189.5	192.0
60°	152.1	152.1	159.6	154.6	152.1
62.5°	117.2	122.2	134.7	122.2	117.2
65°	92.3	97.3	104.7	97.3	89.8
67.5°	69.8	74.8	79.8	74.8	67.3
70°	52.4	57.4	59.8	57.4	52.4
72.5°	37.4	39.9	39.9	39.9	34.9
75°	22.4	24.9	24.9	24.9	22.4
77.5°	7.5	12.5	12.5	12.5	7.5
80°	5.0	5.0	5.0	5.0	5.0
82.5°	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	2.5	2.5
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)