

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: P238291

Luminaire Tested: **PRS630D010-S6M24-61SMDC-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238291  
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-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2812.4 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

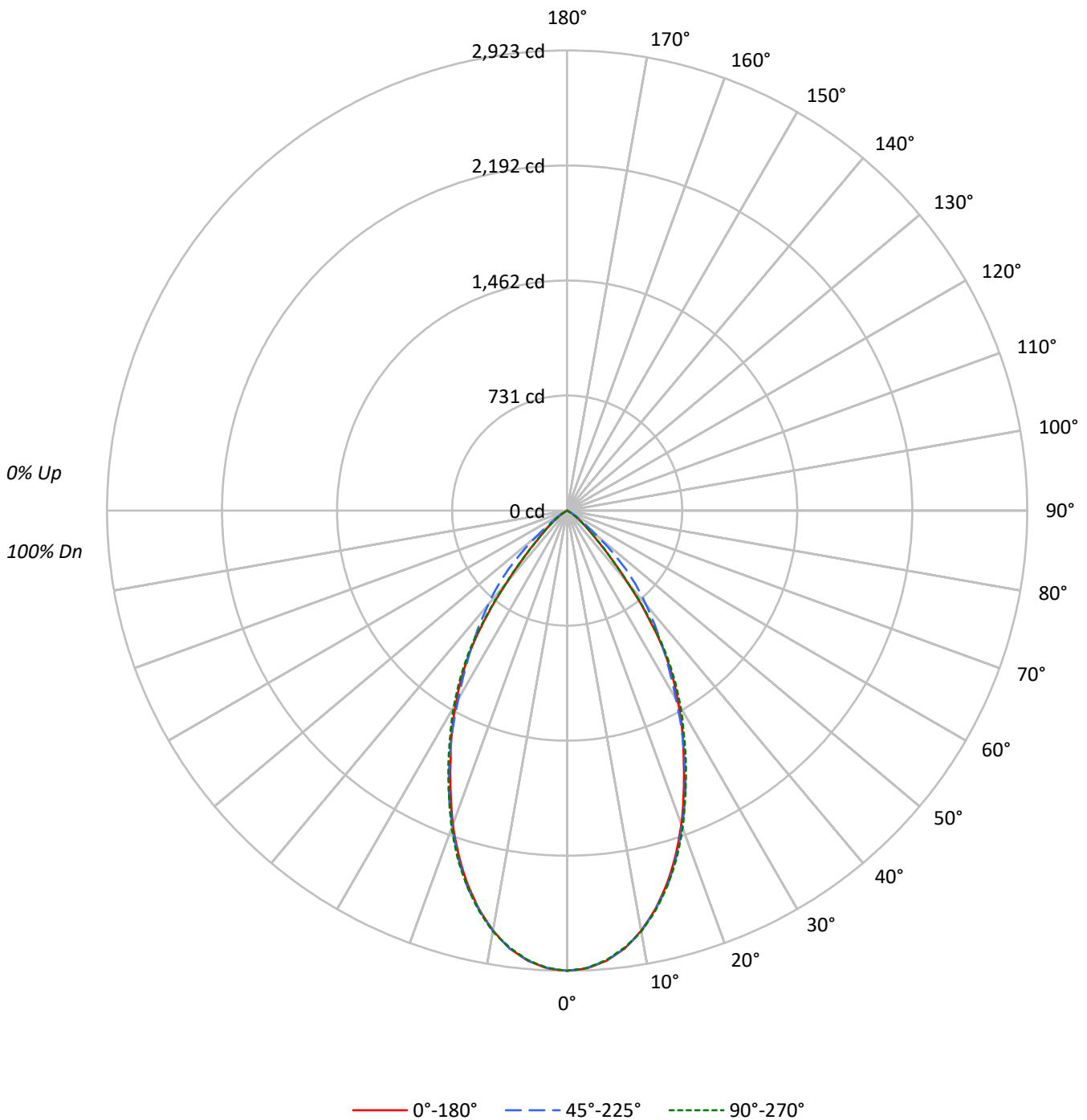
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	125865	125865	125865
5°	124063	123951	123839
10°	118468	118586	118699
15°	109270	109858	109858
20°	97223	97709	98314
25°	83274	84025	84776
30°	70244	68668	71686
35°	55279	55557	56530
40°	33633	43705	34223
45°	17013	32101	17335
50°	9357	16243	9357
55°	5142	6726	5345
60°	1361	2954	1361
65°	0	1070	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°	268.9	9.6
10°-20°	685.2	24.4
20°-30°	809.1	28.8
30°-40°	660.5	23.5
40°-50°	303.2	10.8
50°-60°	78.8	2.8
60°-70°	6.6	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°	1763.2	62.7
0°-40°	2423.7	86.2
0°-60°	2805.7	99.8
0°-90°	2812.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2923	2923	2923	2923	2923	
5°	2870	2870	2868	2868	2865	269
15°	2451	2457	2465	2467	2465	683
25°	1753	1750	1769	1779	1784	805
35°	1052	1081	1057	1097	1076	638
45°	279	345	527	348	285	239
55°	68	84	90	84	71	64
65°	0	0	10	0	0	3
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°	2923.3	2923.3	2923.3	2923.3	2923.3
2.5°	2910.1	2910.1	2907.4	2907.4	2907.4
5°	2870.5	2870.5	2867.9	2867.9	2865.3
7.5°	2804.6	2804.6	2804.6	2802.0	2799.4
10°	2709.7	2709.7	2712.4	2712.4	2715.0
12.5°	2591.1	2593.8	2593.8	2599.0	2599.0
15°	2451.4	2456.7	2464.6	2467.2	2464.6
17.5°	2293.3	2298.5	2306.5	2317.0	2314.4
20°	2121.9	2124.6	2132.5	2148.3	2145.7
22.5°	1934.8	1940.1	1961.1	1966.4	1961.1
25°	1752.9	1750.3	1768.7	1779.3	1784.5
27.5°	1586.8	1573.7	1576.3	1592.1	1607.9
30°	1412.9	1407.6	1381.2	1423.4	1441.9
32.5°	1241.5	1244.2	1209.9	1254.7	1265.3
35°	1051.7	1080.7	1057.0	1096.6	1075.5
37.5°	825.1	904.1	912.0	917.3	846.1
40°	598.4	701.2	777.6	706.4	608.9
42.5°	416.5	500.8	656.3	511.4	413.8
45°	279.4	345.3	527.2	347.9	284.7
47.5°	195.1	232.0	382.2	234.6	195.1
50°	139.7	160.8	242.5	163.4	139.7
52.5°	102.8	116.0	147.6	116.0	102.8
55°	68.5	84.4	89.6	84.4	71.2
57.5°	42.2	55.4	58.0	55.4	39.5
60°	15.8	29.0	34.3	29.0	15.8
62.5°	2.6	7.9	21.1	10.5	2.6
65°	0.0	0.0	10.5	0.0	0.0
67.5°	0.0	0.0	2.6	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)