

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: P253096

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SWDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1687.9 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

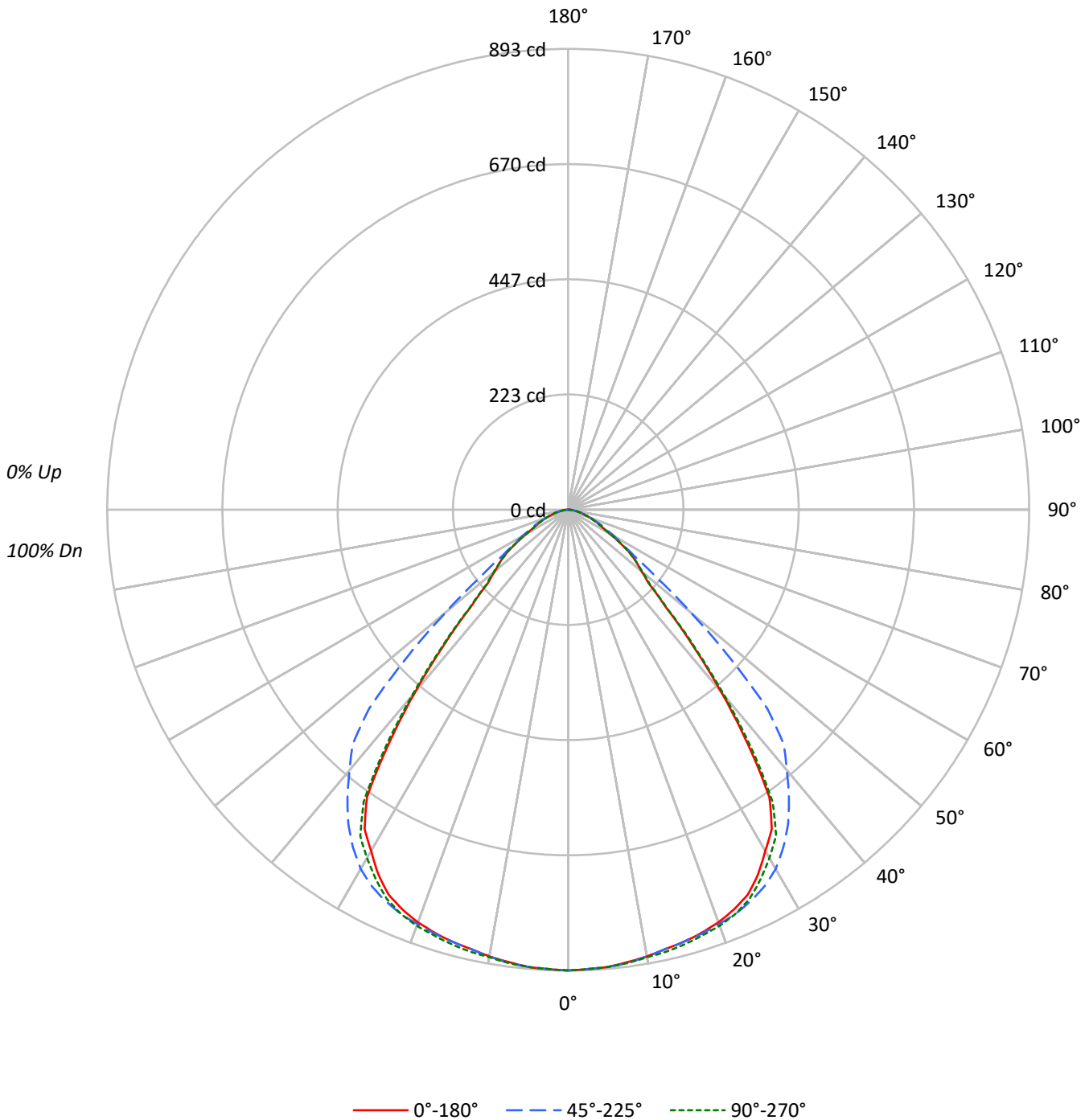
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P253096

CATALOG NUMBER: PRS630D010-S6M24-61SWDMB-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P253096

CATALOG NUMBER: PRS630D010-S6M24-61SWDMB-3000K

**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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

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

	0°	45°	90°
0°	38444	38444	38444
5°	38440	38440	38440
10°	38425	38425	38504
15°	38633	38633	38865
20°	38992	39148	39308
25°	39098	39763	39511
30°	37963	39962	38744
35°	35726	39032	36278
40°	25927	37022	26518
45°	16276	33197	16599
50°	12405	20832	12640
55°	10884	11673	10884
60°	7974	8878	7974
65°	6592	7121	6592
70°	5501	5715	5501
75°	4658	4658	4658
80°	3893	3893	3893
85°	3458	3458	3458



TEST NUMBER: P253096

CATALOG NUMBER: PRS630D010-S6M24-61SWDDB-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	5.0
10°-20°	245.6	14.6
20°-30°	382.2	22.6
30°-40°	436.8	25.9
40°-50°	292.2	17.3
50°-60°	139.8	8.3
60°-70°	68.2	4.0
70°-80°	30.7	1.8
80°-90°	7.8	0.5
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°	712.4	42.2
0°-40°	1149.2	68.1
0°-60°	1581.2	93.7
0°-90°	1687.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	889	889	889	889	889	85
15°	867	867	867	870	872	245
25°	823	828	837	835	832	377
35°	680	718	743	729	690	404
45°	267	344	545	350	273	222
55°	145	156	156	157	145	126
65°	65	66	70	66	65	65
75°	28	28	28	28	28	30
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



TEST NUMBER: P253096

CATALOG NUMBER: PRS630D010-S6M24-61SWDMB-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	892.9	892.9	892.9	892.9	892.9
2.5°	891.1	891.1	891.1	891.1	891.1
5°	889.4	889.4	889.4	889.4	889.4
7.5°	884.2	884.2	885.9	884.2	885.9
10°	878.9	878.9	878.9	880.7	880.7
12.5°	871.9	871.9	871.9	875.4	877.2
15°	866.7	866.7	866.7	870.2	871.9
17.5°	859.7	859.7	861.4	864.9	864.9
20°	851.0	852.7	854.4	857.9	857.9
22.5°	838.7	842.2	847.5	849.2	847.5
25°	823.0	828.2	837.0	835.2	831.7
27.5°	796.8	809.0	823.0	816.0	807.3
30°	763.6	782.8	803.8	789.8	779.3
32.5°	733.9	749.6	775.8	760.1	749.6
35°	679.7	718.2	742.6	728.6	690.2
37.5°	569.6	655.3	702.4	665.7	583.6
40°	461.3	552.2	658.7	559.1	471.8
42.5°	358.2	445.6	618.6	452.6	365.2
45°	267.3	344.2	545.2	349.5	272.6
47.5°	211.4	255.1	424.6	260.4	214.9
50°	185.2	202.7	311.0	206.2	188.7
52.5°	166.0	176.5	216.7	178.2	166.0
55°	145.0	155.5	155.5	157.3	145.0
57.5°	117.1	132.8	122.3	132.8	118.8
60°	92.6	104.8	103.1	104.8	92.6
62.5°	75.1	82.1	83.9	82.1	75.1
65°	64.7	66.4	69.9	66.4	64.7
67.5°	54.2	55.9	55.9	55.9	52.4
70°	43.7	45.4	45.4	45.4	43.7
72.5°	34.9	36.7	36.7	36.7	34.9
75°	28.0	28.0	28.0	28.0	28.0
77.5°	21.0	22.7	21.0	22.7	21.0
80°	15.7	15.7	15.7	15.7	15.7
82.5°	10.5	10.5	10.5	10.5	10.5
85°	7.0	7.0	7.0	7.0	7.0
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)