

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: P253036

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253036  
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-S6M24-64SWDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW 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: 2403.5 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

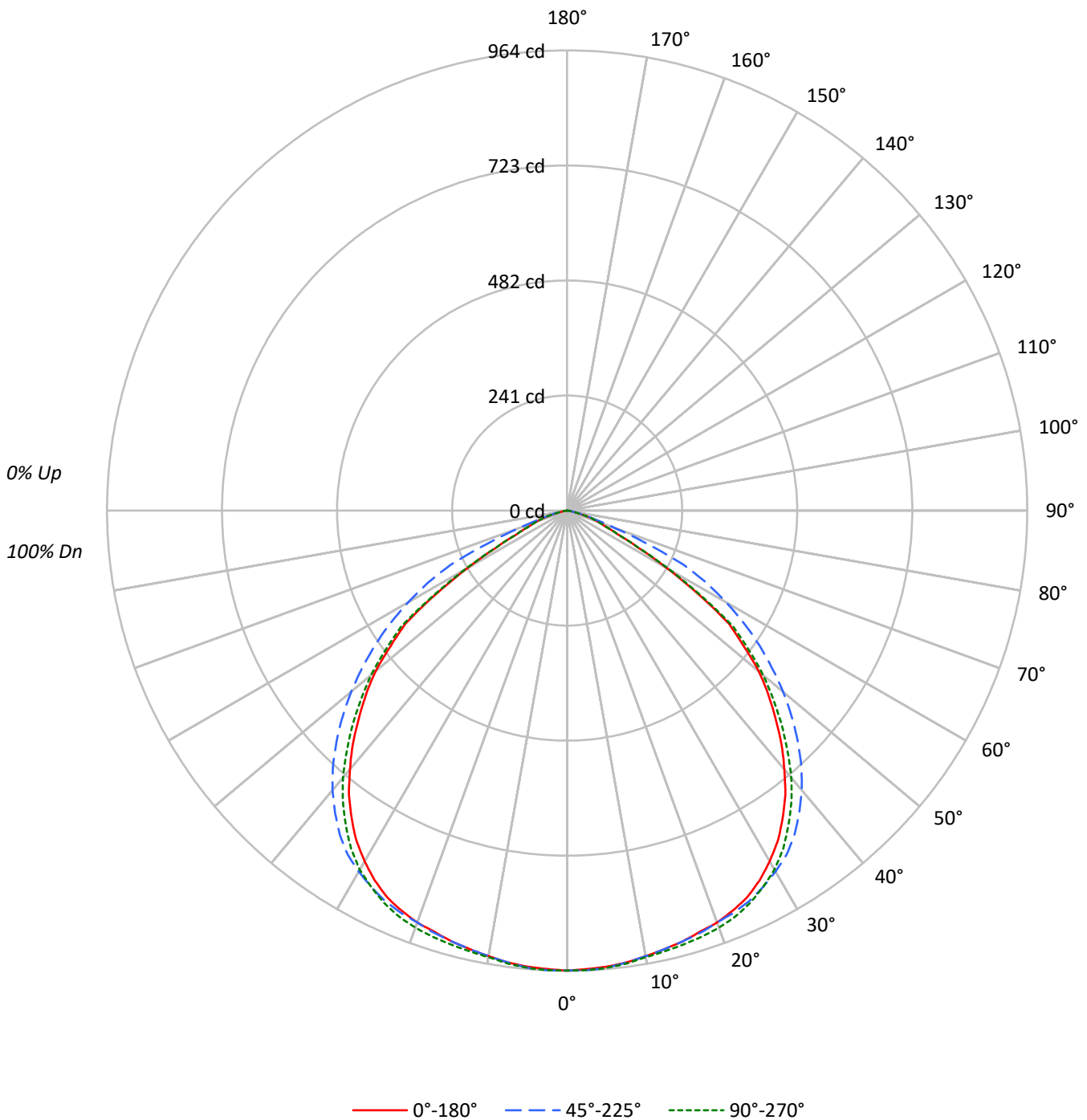
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100	100		
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88	88	88	88	88		
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76	76	76	76	76	76	76		
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65	65	65	65	65	65	65		
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	57	57	57	57		
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50		
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44	44	44	44	44	44	44		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39	39	39	39	39	39	39		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35	35	35	35	35	35	35		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31	31	31	31		
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28	28	28	28		

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

	0°	45°	90°
0°	41493	41493	41493
5°	41452	41552	41552
10°	41438	41438	41538
15°	41646	41646	41945
20°	42080	42080	42598
25°	42447	42880	43093
30°	42174	43412	43189
35°	41376	43636	42448
40°	39793	42974	41069
45°	37606	41600	38708
50°	35153	39547	35909
55°	31077	36850	31925
60°	20839	33118	21424
65°	11757	27426	11757
70°	8825	13382	8548
75°	5273	6022	5639
80°	2232	2802	2232
85°	1136	1136	1136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	3.8
10°-20°	264.8	11.0
20°-30°	414.9	17.3
30°-40°	506.9	21.1
40°-50°	503.9	21.0
50°-60°	397.9	16.6
60°-70°	178.1	7.4
70°-80°	41.5	1.7
80°-90°	4.3	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°	771.0	32.1
0°-40°	1277.8	53.2
0°-60°	2179.6	90.7
0°-90°	2403.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2403.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	959	959	961	961	961	91
15°	934	932	934	936	941	264
25°	894	896	903	905	907	411
35°	787	803	830	819	808	491
45°	618	647	683	663	636	477
55°	414	446	491	455	425	354
65°	115	152	269	154	115	129
75°	32	38	36	38	34	36
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	963.7	963.7	963.7	963.7	963.7
2.5°	961.4	963.7	963.7	963.7	963.7
5°	959.1	959.1	961.4	961.4	961.4
7.5°	954.6	954.6	954.6	956.9	956.9
10°	947.8	947.8	947.8	950.1	950.1
12.5°	941.0	941.0	941.0	943.3	945.6
15°	934.3	932.0	934.3	936.5	941.0
17.5°	925.2	927.5	927.5	932.0	936.5
20°	918.4	918.4	918.4	925.2	929.7
22.5°	907.1	907.1	911.6	916.2	920.7
25°	893.5	895.8	902.6	904.9	907.1
27.5°	873.2	880.0	889.0	891.3	889.0
30°	848.3	857.3	873.2	870.9	868.7
32.5°	821.2	832.5	855.1	848.3	841.5
35°	787.2	803.1	830.2	818.9	807.6
37.5°	751.0	771.4	798.5	787.2	771.4
40°	708.0	732.9	764.6	748.8	730.7
42.5°	665.1	692.2	726.1	705.8	683.2
45°	617.6	647.0	683.2	662.8	635.7
47.5°	572.3	601.7	637.9	613.0	585.9
50°	524.8	552.0	590.4	563.3	536.1
52.5°	466.0	502.2	540.7	511.2	479.6
55°	414.0	445.6	490.9	454.7	425.3
57.5°	325.7	389.1	438.9	395.9	334.8
60°	242.0	303.1	384.6	312.2	248.8
62.5°	167.4	224.0	330.3	226.2	169.7
65°	115.4	151.6	269.2	153.8	115.4
67.5°	86.0	101.8	181.0	101.8	86.0
70°	70.1	74.7	106.3	74.7	67.9
72.5°	52.0	58.8	58.8	58.8	54.3
75°	31.7	38.5	36.2	38.5	33.9
77.5°	13.6	18.1	22.6	20.4	13.6
80°	9.0	9.0	11.3	9.0	9.0
82.5°	6.8	6.8	6.8	6.8	6.8
85°	2.3	2.3	2.3	2.3	2.3
87.5°	2.3	2.3	2.3	2.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)