

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: P252926

Luminaire Tested: **PRS430D010-S4M24-44SWDMB-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS430D010-S4M24-44SWDMB-4000K  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2261.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

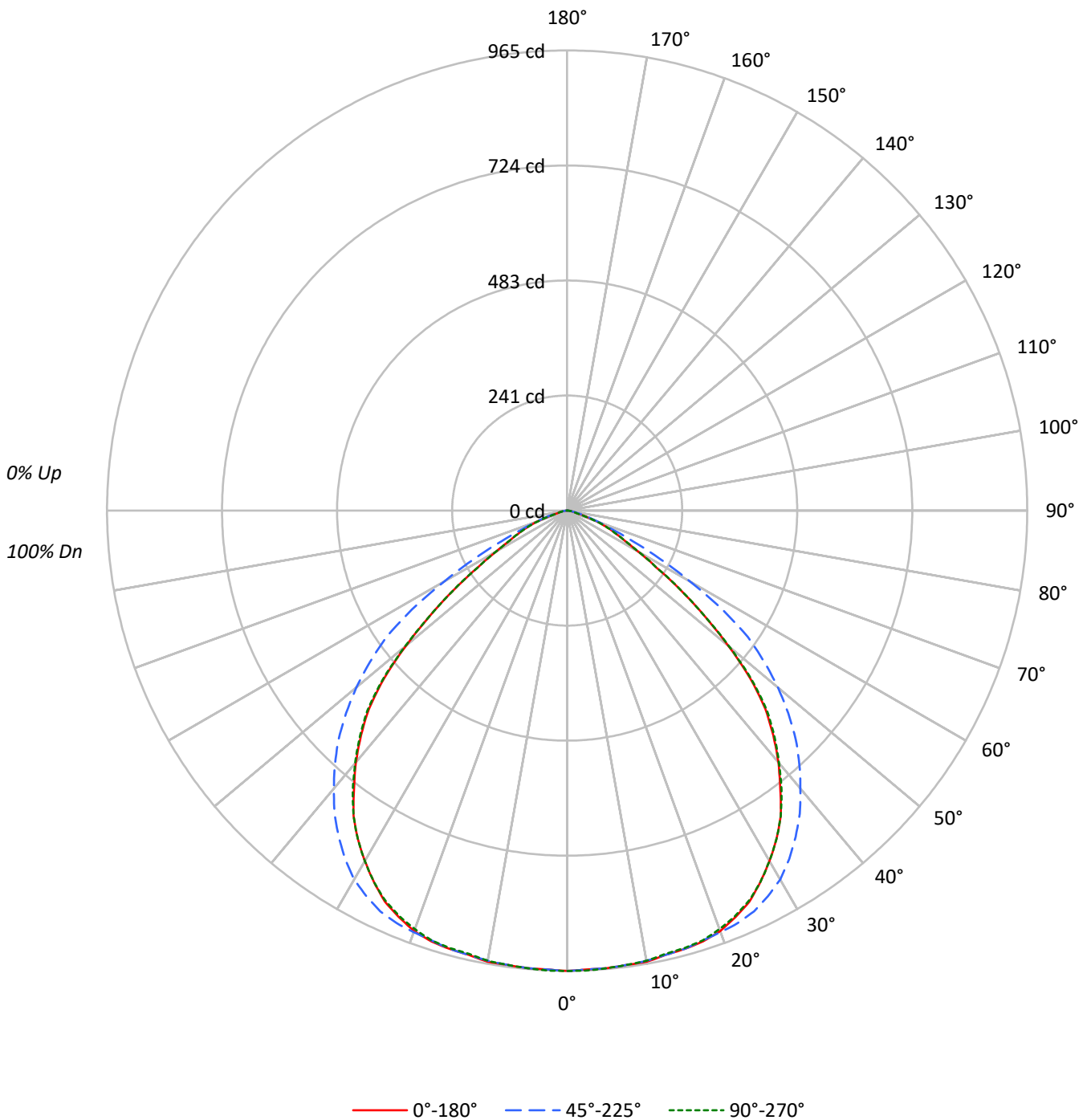
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	61	59
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

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

	0°	45°	90°
0°	73895	73895	73895
5°	74001	74001	74001
10°	74685	74506	74506
15°	75432	75432	75258
20°	76438	76625	76072
25°	76416	78308	76222
30°	75003	78972	75003
35°	73006	78043	73006
40°	68865	76049	69095
45°	63672	73393	64159
50°	52669	68709	52931
55°	38647	61720	38954
60°	26117	45712	26469
65°	19923	27657	19923
70°	14569	15576	14077
75°	5974	8636	5974
80°	4937	4937	4937
85°	3952	3952	3952



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	4.1
10°-20°	269.0	11.9
20°-30°	420.2	18.6
30°-40°	502.6	22.2
40°-50°	483.1	21.4
50°-60°	324.5	14.3
60°-70°	132.5	5.9
70°-80°	32.9	1.5
80°-90°	5.2	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°	781.0	34.5
0°-40°	1283.6	56.8
0°-60°	2091.2	92.5
0°-90°	2261.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	963	963	963	963	963	92
15°	952	952	952	950	950	269
25°	905	914	927	912	902	415
35°	781	804	835	806	781	485
45°	588	631	678	633	593	446
55°	290	350	462	352	292	263
65°	110	124	153	124	110	111
75°	20	22	29	22	20	29
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	965.4	965.4	965.4	965.4	965.4
2.5°	963.1	963.1	963.1	965.4	965.4
5°	963.1	963.1	963.1	963.1	963.1
7.5°	960.9	960.9	960.9	960.9	960.9
10°	960.9	958.6	958.6	958.6	958.6
12.5°	954.2	954.2	954.2	954.2	951.9
15°	951.9	951.9	951.9	949.7	949.7
17.5°	947.4	947.4	945.2	945.2	945.2
20°	938.4	940.7	940.7	938.4	933.9
22.5°	922.7	929.5	936.2	927.2	920.5
25°	904.8	913.7	927.2	911.5	902.5
27.5°	877.8	891.3	911.5	891.3	877.8
30°	848.6	866.6	893.5	866.6	848.6
32.5°	817.2	837.4	866.6	837.4	817.2
35°	781.3	803.7	835.2	806.0	781.3
37.5°	734.1	765.6	801.5	770.1	738.6
40°	689.2	722.9	761.1	725.2	691.5
42.5°	639.8	678.0	720.7	680.3	644.3
45°	588.2	630.9	678.0	633.1	592.7
47.5°	520.9	572.5	628.6	579.2	525.3
50°	442.3	507.4	577.0	511.9	444.5
52.5°	363.7	426.6	520.9	431.1	363.7
55°	289.6	350.2	462.5	352.5	291.9
57.5°	222.3	276.1	386.2	280.6	222.3
60°	170.6	211.0	298.6	213.3	172.9
62.5°	134.7	159.4	220.0	157.2	134.7
65°	110.0	123.5	152.7	123.5	110.0
67.5°	87.6	96.5	101.0	96.5	87.6
70°	65.1	74.1	69.6	74.1	62.9
72.5°	38.2	47.1	47.1	47.1	35.9
75°	20.2	22.5	29.2	22.5	20.2
77.5°	15.7	15.7	18.0	15.7	15.7
80°	11.2	11.2	11.2	11.2	11.2
82.5°	6.7	6.7	6.7	6.7	6.7
85°	4.5	4.5	4.5	4.5	4.5
87.5°	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)