

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: P252911

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252911  
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-S4M24-44SWDMW-4000K  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2614.8 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

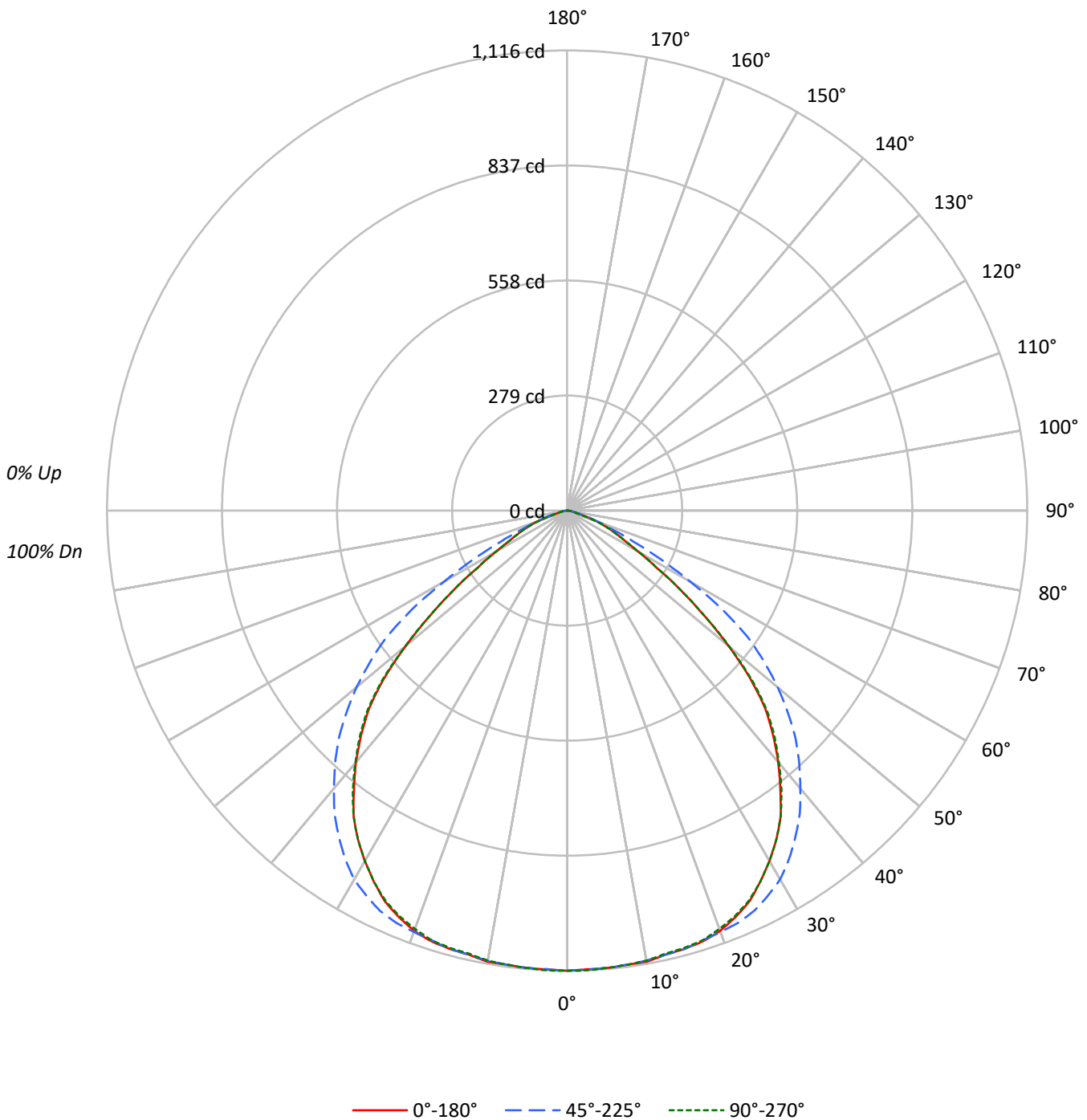
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	85430	85430	85430
5°	85557	85557	85557
10°	86344	86142	86142
15°	87208	87208	87001
20°	88371	88583	87948
25°	88341	90529	88122
30°	86714	91301	86714
35°	84397	90218	84397
40°	79617	87920	79876
45°	73609	84845	74172
50°	60886	79427	61195
55°	44679	71355	45026
60°	30204	52846	30602
65°	23038	31967	23038
70°	16852	18016	16270
75°	6920	9966	6920
80°	5730	5730	5730
85°	4567	4567	4567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.1	4.1
10°-20°	311.0	11.9
20°-30°	485.8	18.6
30°-40°	581.0	22.2
40°-50°	558.4	21.4
50°-60°	375.1	14.3
60°-70°	153.2	5.9
70°-80°	38.1	1.5
80°-90°	6.0	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°	902.9	34.5
0°-40°	1484.0	56.8
0°-60°	2417.5	92.5
0°-90°	2614.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1114	1114	1114	1114	1114	106
15°	1100	1100	1100	1098	1098	311
25°	1046	1056	1072	1054	1043	480
35°	903	929	966	932	903	561
45°	680	729	784	732	685	515
55°	335	405	535	408	337	304
65°	127	143	176	143	127	128
75°	23	26	34	26	23	34
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1116.1	1116.1	1116.1	1116.1	1116.1
2.5°	1113.5	1113.5	1113.5	1116.1	1116.1
5°	1113.5	1113.5	1113.5	1113.5	1113.5
7.5°	1110.9	1110.9	1110.9	1110.9	1110.9
10°	1110.9	1108.3	1108.3	1108.3	1108.3
12.5°	1103.1	1103.1	1103.1	1103.1	1100.5
15°	1100.5	1100.5	1100.5	1097.9	1097.9
17.5°	1095.3	1095.3	1092.7	1092.7	1092.7
20°	1084.9	1087.5	1087.5	1084.9	1079.7
22.5°	1066.7	1074.5	1082.3	1071.9	1064.1
25°	1046.0	1056.4	1071.9	1053.8	1043.4
27.5°	1014.8	1030.4	1053.8	1030.4	1014.8
30°	981.1	1001.9	1033.0	1001.9	981.1
32.5°	944.7	968.1	1001.9	968.1	944.7
35°	903.2	929.2	965.5	931.8	903.2
37.5°	848.7	885.1	926.6	890.2	853.9
40°	796.8	835.7	879.9	838.3	799.4
42.5°	739.7	783.8	833.1	786.4	744.9
45°	680.0	729.3	783.8	731.9	685.2
47.5°	602.1	661.8	726.7	669.6	607.3
50°	511.3	586.6	667.0	591.8	513.9
52.5°	420.5	493.1	602.1	498.3	420.5
55°	334.8	404.9	534.7	407.5	337.4
57.5°	257.0	319.2	446.4	324.4	257.0
60°	197.3	244.0	345.2	246.6	199.9
62.5°	155.7	184.3	254.4	181.7	155.7
65°	127.2	142.8	176.5	142.8	127.2
67.5°	101.2	111.6	116.8	111.6	101.2
70°	75.3	85.7	80.5	85.7	72.7
72.5°	44.1	54.5	54.5	54.5	41.5
75°	23.4	26.0	33.7	26.0	23.4
77.5°	18.2	18.2	20.8	18.2	18.2
80°	13.0	13.0	13.0	13.0	13.0
82.5°	7.8	7.8	7.8	7.8	7.8
85°	5.2	5.2	5.2	5.2	5.2
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)