

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: P252876

Luminaire Tested: **PRS430D010-S4M24-44SWDC**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252876  
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-S4M24-44SWDC  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2651.1 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

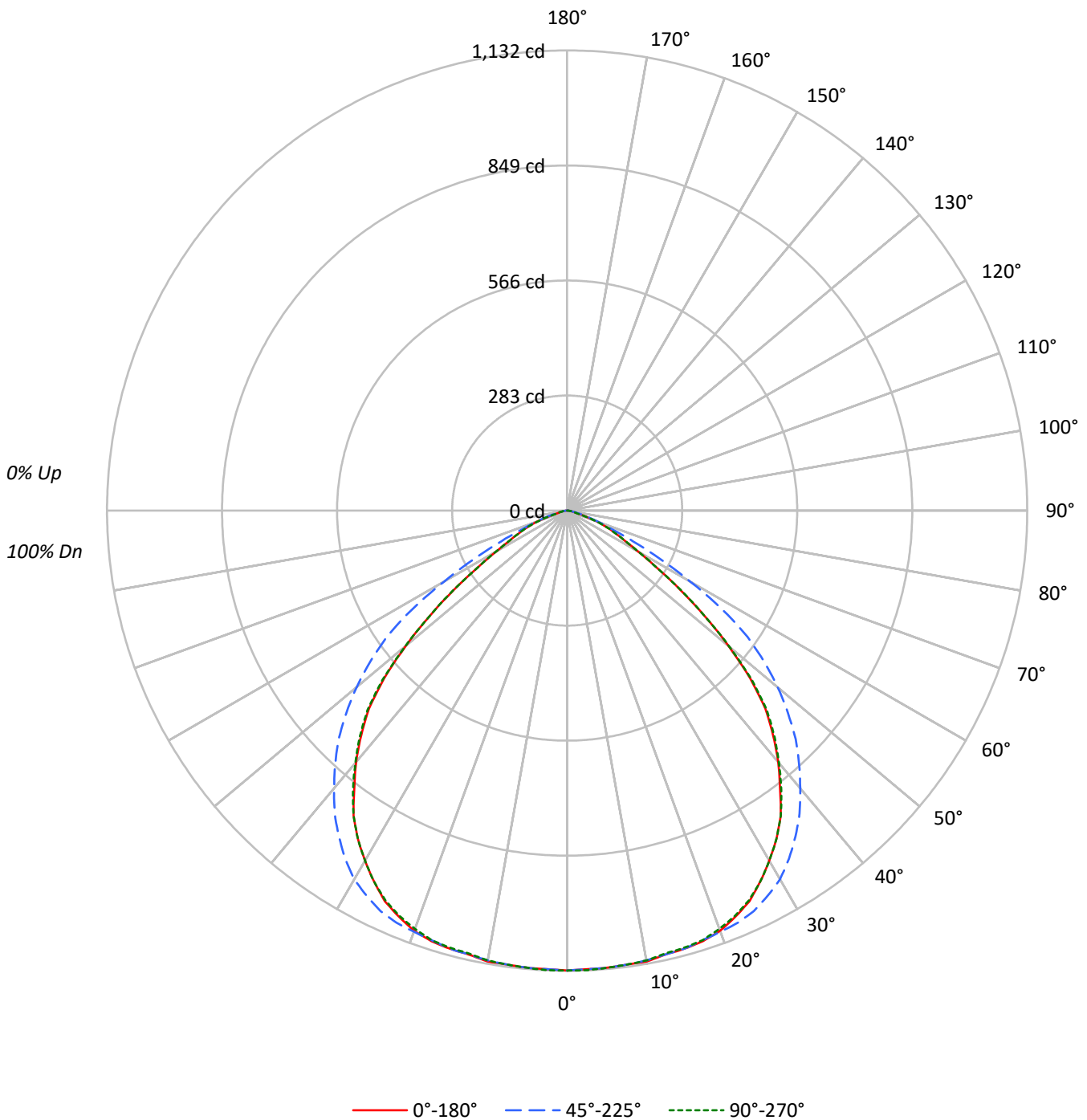
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	86617	86617	86617
5°	86748	86748	86748
10°	87541	87339	87339
15°	88420	88420	88214
20°	89601	89813	89170
25°	89566	91796	89346
30°	87916	92574	87916
35°	85574	91480	85574
40°	80726	89139	80985
45°	74637	86025	75200
50°	61731	80534	62053
55°	45306	72343	45653
60°	30617	53580	31015
65°	23346	32402	23346
70°	17076	18262	16494
75°	7009	10114	7009
80°	5819	5819	5819
85°	4655	4655	4655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	4.1
10°-20°	315.3	11.9
20°-30°	492.5	18.6
30°-40°	589.1	22.2
40°-50°	566.2	21.4
50°-60°	380.3	14.3
60°-70°	155.3	5.9
70°-80°	38.6	1.5
80°-90°	6.1	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°	915.5	34.5
0°-40°	1504.6	56.8
0°-60°	2451.2	92.5
0°-90°	2651.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2651.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1129	1129	1129	1129	1129	108
15°	1116	1116	1116	1113	1113	316
25°	1060	1071	1087	1068	1058	487
35°	916	942	979	945	916	569
45°	690	740	795	742	695	522
55°	340	410	542	413	342	308
65°	129	145	179	145	129	130
75°	24	26	34	26	24	35
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°	1131.6	1131.6	1131.6	1131.6	1131.6
2.5°	1129.0	1129.0	1129.0	1131.6	1131.6
5°	1129.0	1129.0	1129.0	1129.0	1129.0
7.5°	1126.3	1126.3	1126.3	1126.3	1126.3
10°	1126.3	1123.7	1123.7	1123.7	1123.7
12.5°	1118.4	1118.4	1118.4	1118.4	1115.8
15°	1115.8	1115.8	1115.8	1113.2	1113.2
17.5°	1110.5	1110.5	1107.9	1107.9	1107.9
20°	1100.0	1102.6	1102.6	1100.0	1094.7
22.5°	1081.6	1089.5	1097.4	1086.9	1079.0
25°	1060.5	1071.1	1086.9	1068.4	1057.9
27.5°	1029.0	1044.7	1068.4	1044.7	1029.0
30°	994.7	1015.8	1047.4	1015.8	994.7
32.5°	957.9	981.6	1015.8	981.6	957.9
35°	915.8	942.1	979.0	944.7	915.8
37.5°	860.5	897.4	939.5	902.6	865.8
40°	807.9	847.4	892.1	850.0	810.5
42.5°	750.0	794.7	844.7	797.4	755.3
45°	689.5	739.5	794.7	742.1	694.7
47.5°	610.5	671.1	736.8	679.0	615.8
50°	518.4	594.7	676.3	600.0	521.1
52.5°	426.3	500.0	610.5	505.3	426.3
55°	339.5	410.5	542.1	413.2	342.1
57.5°	260.5	323.7	452.6	328.9	260.5
60°	200.0	247.4	350.0	250.0	202.6
62.5°	157.9	186.8	257.9	184.2	157.9
65°	128.9	144.7	178.9	144.7	128.9
67.5°	102.6	113.2	118.4	113.2	102.6
70°	76.3	86.8	81.6	86.8	73.7
72.5°	44.7	55.3	55.3	55.3	42.1
75°	23.7	26.3	34.2	26.3	23.7
77.5°	18.4	18.4	21.1	18.4	18.4
80°	13.2	13.2	13.2	13.2	13.2
82.5°	7.9	7.9	7.9	7.9	7.9
85°	5.3	5.3	5.3	5.3	5.3
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)