

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: P252891

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252891  
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-S4M24-44SWDH  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2627.3 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

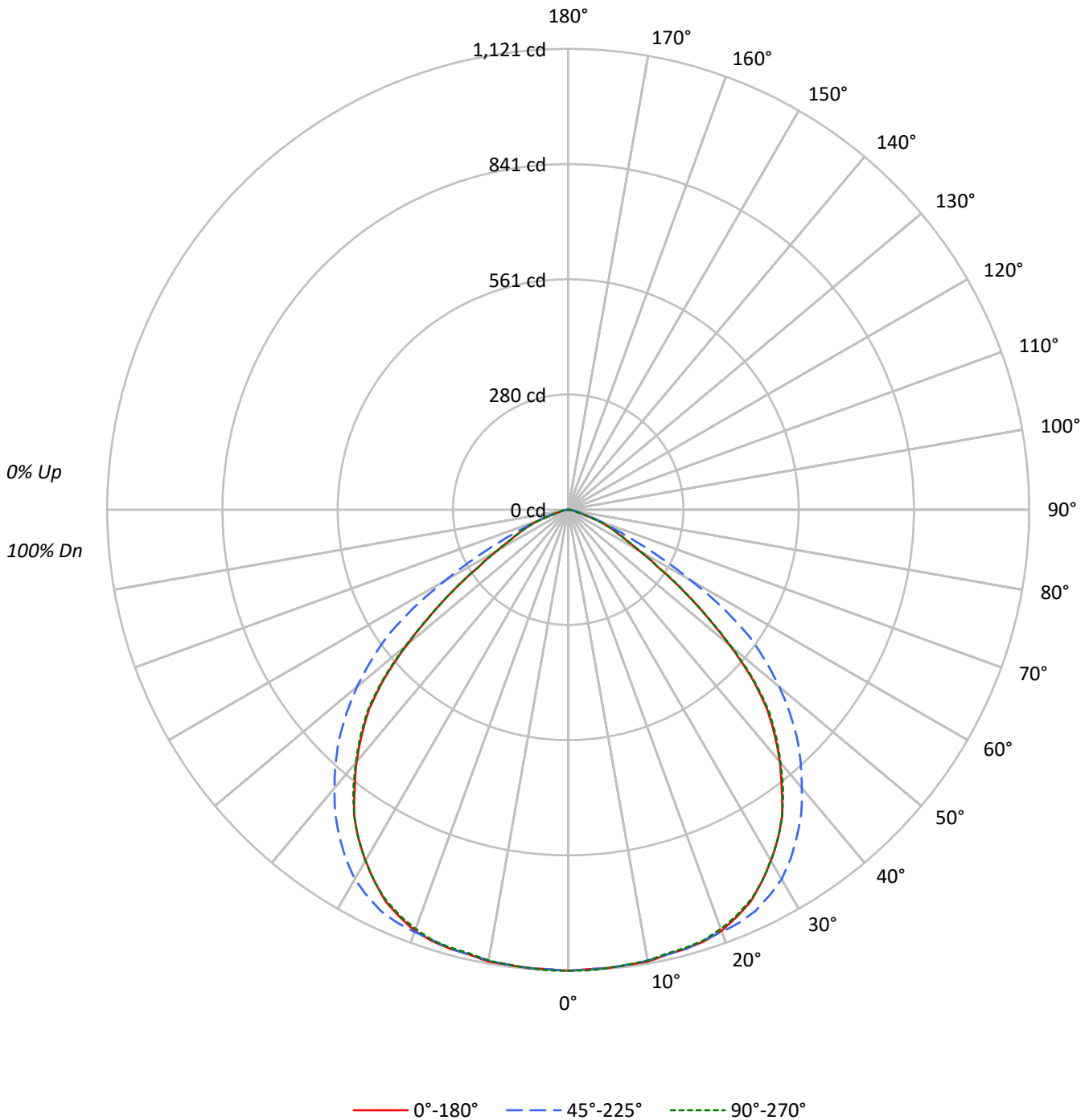
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	85836	85836	85836
5°	85964	85964	85964
10°	86756	86554	86554
15°	87628	87628	87414
20°	88795	89007	88371
25°	88764	90968	88544
30°	87130	91743	87130
35°	84808	90648	84808
40°	79996	88340	80256
45°	73966	85257	74529
50°	61184	79808	61493
55°	44892	71689	45239
60°	30342	53106	30740
65°	23147	32112	23147
70°	16919	18083	16337
75°	6950	10026	6950
80°	5730	5730	5730
85°	4567	4567	4567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	4.1
10°-20°	312.5	11.9
20°-30°	488.1	18.6
30°-40°	583.8	22.2
40°-50°	561.1	21.4
50°-60°	376.9	14.3
60°-70°	153.9	5.9
70°-80°	38.2	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°	907.2	34.5
0°-40°	1491.1	56.8
0°-60°	2429.1	92.5
0°-90°	2627.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1119	1119	1119	1119	1119	107
15°	1106	1106	1106	1103	1103	313
25°	1051	1061	1077	1059	1048	482
35°	908	934	970	936	908	564
45°	683	733	788	735	688	518
55°	336	407	537	409	339	305
65°	128	143	177	143	128	129
75°	24	26	34	26	24	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°	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1118.8	1118.8	1118.8	1121.4	1121.4
5°	1118.8	1118.8	1118.8	1118.8	1118.8
7.5°	1116.2	1116.2	1116.2	1116.2	1116.2
10°	1116.2	1113.6	1113.6	1113.6	1113.6
12.5°	1108.4	1108.4	1108.4	1108.4	1105.8
15°	1105.8	1105.8	1105.8	1103.1	1103.1
17.5°	1100.5	1100.5	1097.9	1097.9	1097.9
20°	1090.1	1092.7	1092.7	1090.1	1084.9
22.5°	1071.9	1079.7	1087.5	1077.1	1069.2
25°	1051.0	1061.4	1077.1	1058.8	1048.4
27.5°	1019.7	1035.3	1058.8	1035.3	1019.7
30°	985.8	1006.7	1038.0	1006.7	985.8
32.5°	949.3	972.8	1006.7	972.8	949.3
35°	907.6	933.6	970.1	936.2	907.6
37.5°	852.8	889.3	931.0	894.5	858.0
40°	800.6	839.7	884.1	842.4	803.2
42.5°	743.3	787.6	837.1	790.2	748.5
45°	683.3	732.8	787.6	735.4	688.5
47.5°	605.0	665.0	730.2	672.8	610.3
50°	513.8	589.4	670.2	594.6	516.4
52.5°	422.5	495.5	605.0	500.7	422.5
55°	336.4	406.8	537.2	409.4	339.0
57.5°	258.2	320.8	448.6	326.0	258.2
60°	198.2	245.1	346.9	247.8	200.8
62.5°	156.5	185.2	255.6	182.6	156.5
65°	127.8	143.4	177.3	143.4	127.8
67.5°	101.7	112.1	117.4	112.1	101.7
70°	75.6	86.1	80.8	86.1	73.0
72.5°	44.3	54.8	54.8	54.8	41.7
75°	23.5	26.1	33.9	26.1	23.5
77.5°	18.3	18.3	20.9	18.3	18.3
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)