

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: P252886

Luminaire Tested: **PRS430D010-S4M24-44SWDH-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252886  
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-3000K  
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2365.5 lumens  
Efficiency: N/A  
Efficacy: 94.6 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

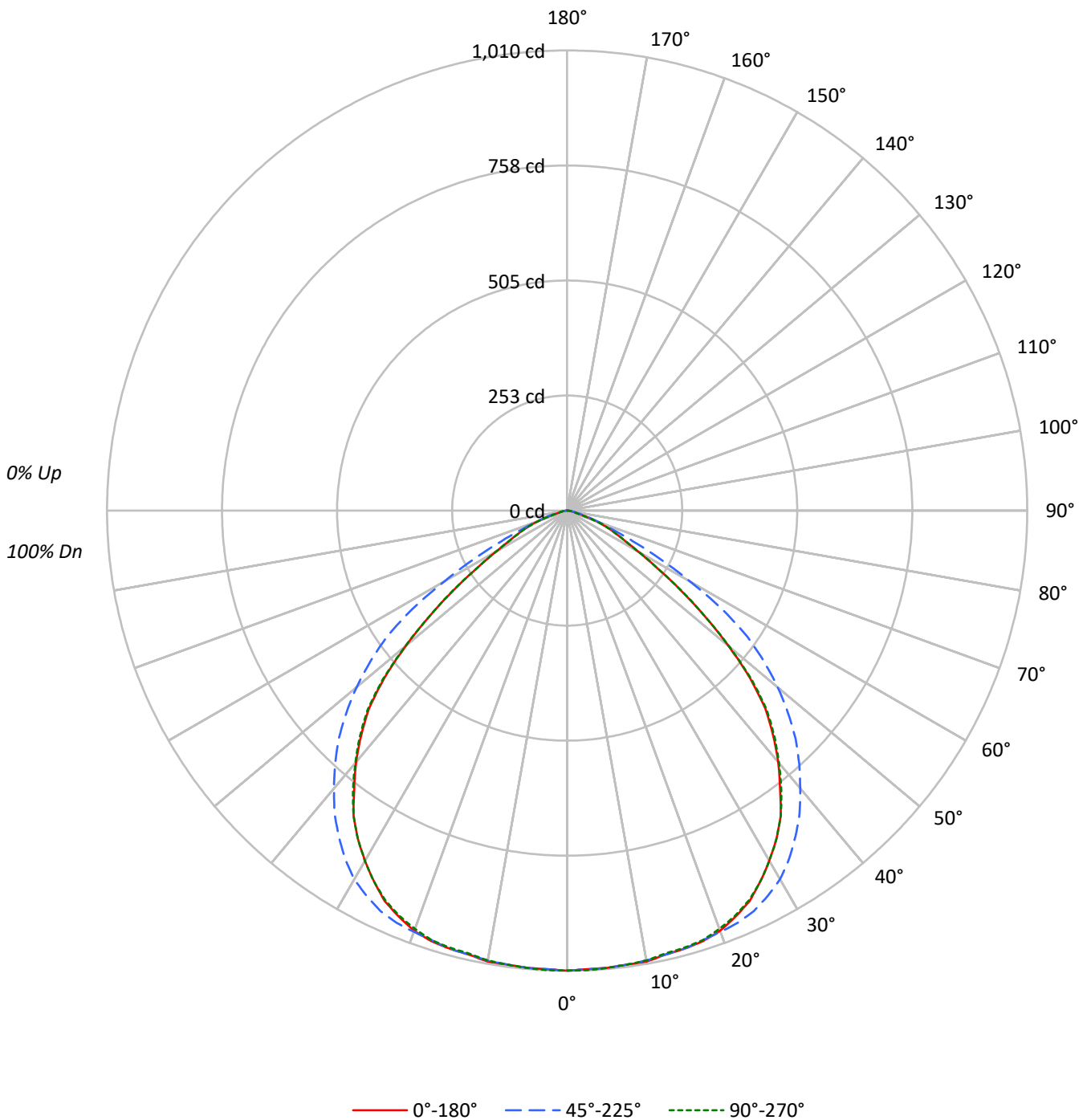
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	77286	77286	77286
5°	77404	77404	77404
10°	78113	77934	77934
15°	78895	78895	78713
20°	79949	80144	79566
25°	79921	81906	79727
30°	78450	82604	78450
35°	76361	81622	76361
40°	72033	79537	72262
45°	66595	76759	67103
50°	55087	71865	55360
55°	40422	64549	40742
60°	27326	47809	27678
65°	20847	28924	20847
70°	15241	16292	14704
75°	6240	9020	6240
80°	5157	5157	5157
85°	4128	4128	4128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	4.1
10°-20°	281.4	11.9
20°-30°	439.5	18.6
30°-40°	525.7	22.2
40°-50°	505.2	21.4
50°-60°	339.4	14.3
60°-70°	138.6	5.9
70°-80°	34.4	1.5
80°-90°	5.4	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°	816.9	34.5
0°-40°	1342.6	56.8
0°-60°	2187.2	92.5
0°-90°	2365.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1007	1007	1007	1007	1007	96
15°	996	996	996	993	993	282
25°	946	956	970	953	944	434
35°	817	841	874	843	817	507
45°	615	660	709	662	620	466
55°	303	366	484	369	305	275
65°	115	129	160	129	115	116
75°	21	24	30	24	21	31
85°	5	5	5	5	5	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1009.7	1009.7	1009.7	1009.7	1009.7
2.5°	1007.4	1007.4	1007.4	1009.7	1009.7
5°	1007.4	1007.4	1007.4	1007.4	1007.4
7.5°	1005.0	1005.0	1005.0	1005.0	1005.0
10°	1005.0	1002.7	1002.7	1002.7	1002.7
12.5°	998.0	998.0	998.0	998.0	995.6
15°	995.6	995.6	995.6	993.3	993.3
17.5°	990.9	990.9	988.6	988.6	988.6
20°	981.5	983.9	983.9	981.5	976.8
22.5°	965.1	972.1	979.2	969.8	962.7
25°	946.3	955.7	969.8	953.4	944.0
27.5°	918.1	932.2	953.4	932.2	918.1
30°	887.6	906.4	934.6	906.4	887.6
32.5°	854.7	875.9	906.4	875.9	854.7
35°	817.2	840.6	873.5	843.0	817.2
37.5°	767.8	800.7	838.3	805.4	772.5
40°	720.9	756.1	796.0	758.5	723.2
42.5°	669.2	709.1	753.8	711.5	673.9
45°	615.2	659.8	709.1	662.2	619.9
47.5°	544.8	598.8	657.5	605.8	549.5
50°	462.6	530.7	603.5	535.4	464.9
52.5°	380.4	446.1	544.8	450.8	380.4
55°	302.9	366.3	483.7	368.7	305.3
57.5°	232.5	288.8	403.9	293.5	232.5
60°	178.5	220.7	312.3	223.1	180.8
62.5°	140.9	166.7	230.1	164.4	140.9
65°	115.1	129.1	159.7	129.1	115.1
67.5°	91.6	101.0	105.7	101.0	91.6
70°	68.1	77.5	72.8	77.5	65.7
72.5°	39.9	49.3	49.3	49.3	37.6
75°	21.1	23.5	30.5	23.5	21.1
77.5°	16.4	16.4	18.8	16.4	16.4
80°	11.7	11.7	11.7	11.7	11.7
82.5°	7.0	7.0	7.0	7.0	7.0
85°	4.7	4.7	4.7	4.7	4.7
87.5°	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)