

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: P252916

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252916
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-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2141.2 lumens
Efficiency: N/A
Efficacy: 85.6 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

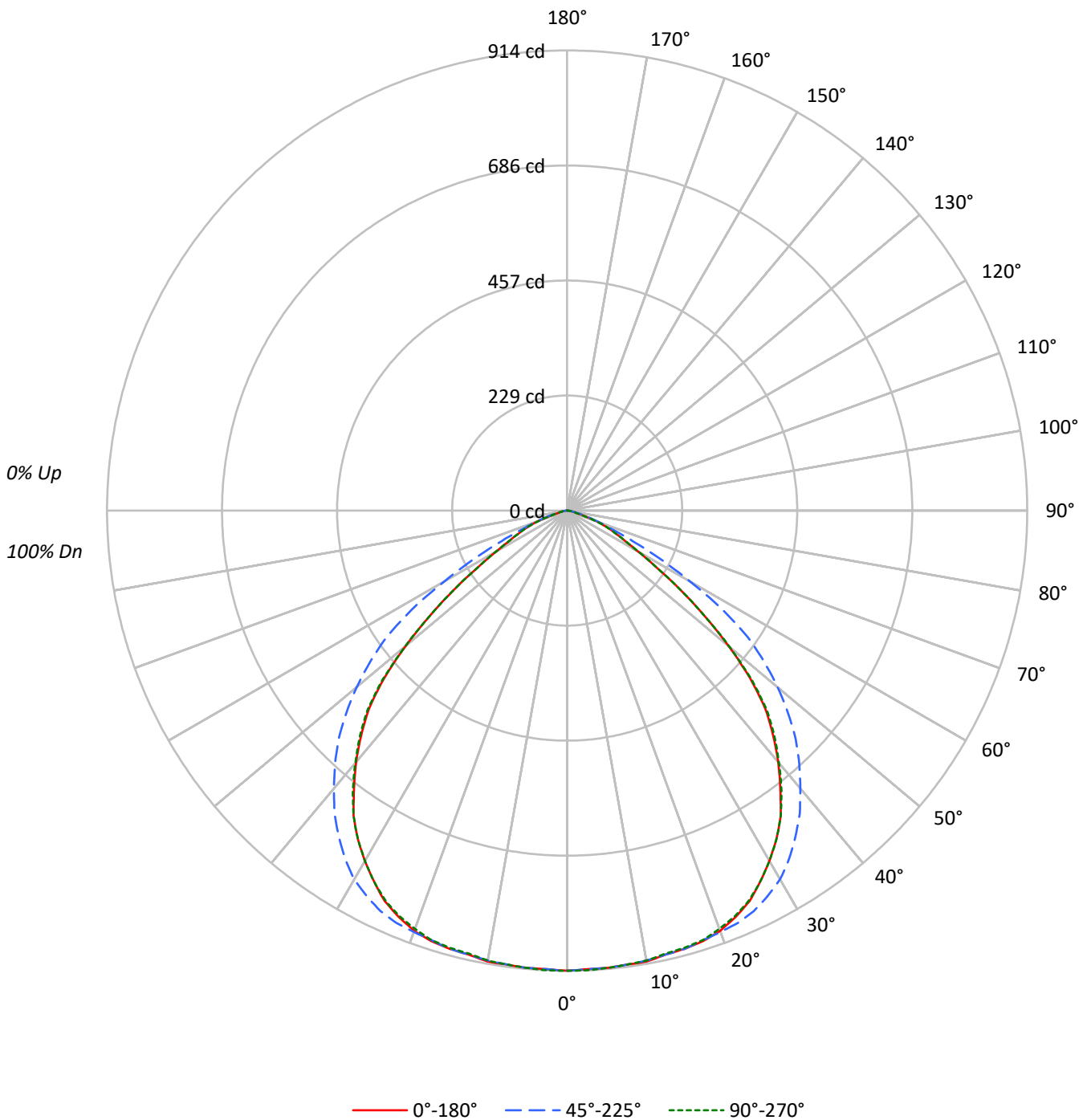
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252916

CATALOG NUMBER: PRS430D010-S4M24-44SWDMB-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P252916

CATALOG NUMBER: PRS430D010-S4M24-44SWDMB-3000K

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°	69953	69953	69953
5°	70059	70059	70059
10°	70706	70542	70542
15°	71414	71414	71248
20°	72365	72545	72023
25°	72337	74136	72159
30°	71008	74765	71008
35°	69110	73885	69110
40°	65198	71993	65408
45°	60284	69485	60738
50°	49859	65042	50109
55°	36592	58424	36872
60°	24724	43278	25060
65°	18854	26171	18854
70°	13786	14748	13316
75°	5649	8162	5649
80°	4672	4672	4672
85°	3776	3776	3776



TEST NUMBER: P252916

CATALOG NUMBER: PRS430D010-S4M24-44SWDMB-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	4.1
10°-20°	254.7	11.9
20°-30°	397.8	18.6
30°-40°	475.8	22.2
40°-50°	457.3	21.4
50°-60°	307.2	14.3
60°-70°	125.4	5.9
70°-80°	31.1	1.5
80°-90°	4.9	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°	739.4	34.5
0°-40°	1215.2	56.8
0°-60°	1979.7	92.5
0°-90°	2141.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	912	912	912	912	912	87
15°	901	901	901	899	899	255
25°	856	865	878	863	854	393
35°	740	761	791	763	740	459
45°	557	597	642	599	561	422
55°	274	332	438	334	276	249
65°	104	117	144	117	104	105
75°	19	21	28	21	19	28
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



TEST NUMBER: P252916

CATALOG NUMBER: PRS430D010-S4M24-44SWDMB-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.9	913.9	913.9	913.9	913.9
2.5°	911.8	911.8	911.8	913.9	913.9
5°	911.8	911.8	911.8	911.8	911.8
7.5°	909.7	909.7	909.7	909.7	909.7
10°	909.7	907.6	907.6	907.6	907.6
12.5°	903.3	903.3	903.3	903.3	901.2
15°	901.2	901.2	901.2	899.1	899.1
17.5°	896.9	896.9	894.8	894.8	894.8
20°	888.4	890.6	890.6	888.4	884.2
22.5°	873.6	879.9	886.3	877.8	871.4
25°	856.5	865.0	877.8	862.9	854.4
27.5°	831.0	843.8	862.9	843.8	831.0
30°	803.4	820.4	845.9	820.4	803.4
32.5°	773.7	792.8	820.4	792.8	773.7
35°	739.6	760.9	790.7	763.0	739.6
37.5°	695.0	724.8	758.8	729.0	699.3
40°	652.5	684.4	720.5	686.5	654.6
42.5°	605.7	641.9	682.3	644.0	610.0
45°	556.9	597.2	641.9	599.4	561.1
47.5°	493.1	542.0	595.1	548.4	497.3
50°	418.7	480.3	546.2	484.6	420.8
52.5°	344.3	403.8	493.1	408.1	344.3
55°	274.2	331.6	437.8	333.7	276.3
57.5°	210.4	261.4	365.6	265.7	210.4
60°	161.5	199.8	282.7	201.9	163.7
62.5°	127.5	150.9	208.3	148.8	127.5
65°	104.1	116.9	144.5	116.9	104.1
67.5°	82.9	91.4	95.6	91.4	82.9
70°	61.6	70.1	65.9	70.1	59.5
72.5°	36.1	44.6	44.6	44.6	34.0
75°	19.1	21.3	27.6	21.3	19.1
77.5°	14.9	14.9	17.0	14.9	14.9
80°	10.6	10.6	10.6	10.6	10.6
82.5°	6.4	6.4	6.4	6.4	6.4
85°	4.3	4.3	4.3	4.3	4.3
87.5°	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)