

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: P252901

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252901
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-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2475.4 lumens
Efficiency: N/A
Efficacy: 99.0 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

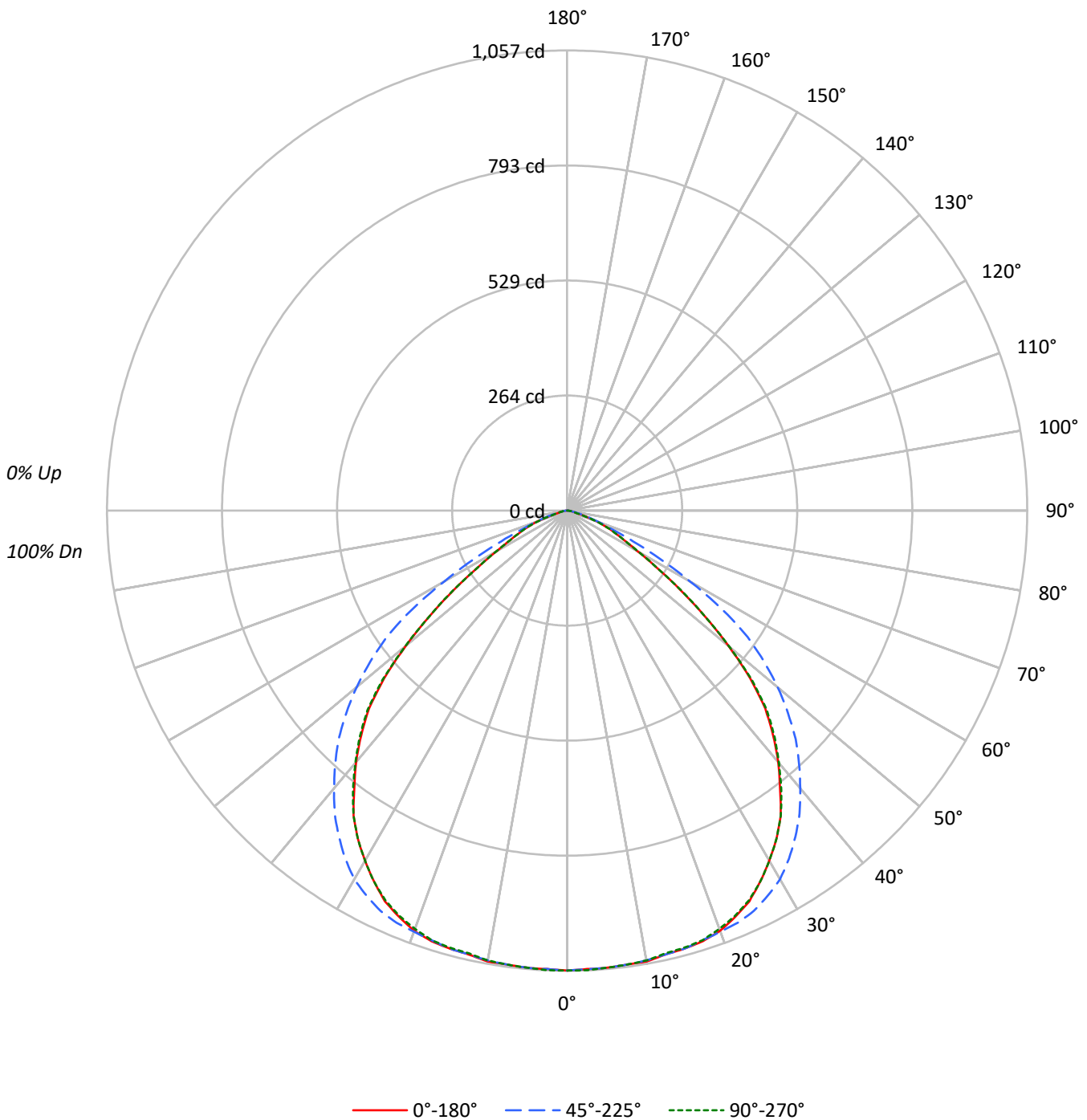
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252901

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

Luminous Intensity Polar Plot





TEST NUMBER: P252901

CATALOG NUMBER: PRS430D010-S4M24-44SWDMW-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°	80876	80876	80876
5°	80993	80993	80993
10°	81743	81548	81548
15°	82556	82556	82366
20°	83663	83859	83264
25°	83629	85706	83426
30°	82092	86431	82092
35°	79902	85416	79902
40°	75370	83234	75620
45°	69691	80331	70221
50°	57647	75199	57933
55°	42303	67552	42624
60°	28581	50029	28964
65°	21806	30265	21806
70°	15957	17053	15397
75°	6536	9434	6536
80°	5422	5422	5422
85°	4303	4303	4303



TEST NUMBER: P252901

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	4.1
10°-20°	294.4	11.9
20°-30°	459.9	18.6
30°-40°	550.1	22.2
40°-50°	528.7	21.4
50°-60°	355.1	14.3
60°-70°	145.0	5.9
70°-80°	36.0	1.5
80°-90°	5.7	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°	854.8	34.5
0°-40°	1404.9	56.8
0°-60°	2288.7	92.5
0°-90°	2475.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2475.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1054	1054	1054	1054	1054	100
15°	1042	1042	1042	1039	1039	295
25°	990	1000	1015	998	988	454
35°	855	880	914	882	855	531
45°	644	690	742	693	649	488
55°	317	383	506	386	319	288
65°	120	135	167	135	120	122
75°	22	25	32	25	22	32
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



TEST NUMBER: P252901

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.6	1056.6	1056.6	1056.6	1056.6
2.5°	1054.1	1054.1	1054.1	1056.6	1056.6
5°	1054.1	1054.1	1054.1	1054.1	1054.1
7.5°	1051.7	1051.7	1051.7	1051.7	1051.7
10°	1051.7	1049.2	1049.2	1049.2	1049.2
12.5°	1044.3	1044.3	1044.3	1044.3	1041.8
15°	1041.8	1041.8	1041.8	1039.4	1039.4
17.5°	1036.9	1036.9	1034.5	1034.5	1034.5
20°	1027.1	1029.5	1029.5	1027.1	1022.2
22.5°	1009.9	1017.3	1024.6	1014.8	1007.4
25°	990.2	1000.1	1014.8	997.6	987.8
27.5°	960.7	975.5	997.6	975.5	960.7
30°	928.8	948.5	977.9	948.5	928.8
32.5°	894.4	916.5	948.5	916.5	894.4
35°	855.1	879.7	914.1	882.1	855.1
37.5°	803.5	837.9	877.2	842.8	808.4
40°	754.3	791.2	833.0	793.7	756.8
42.5°	700.3	742.1	788.7	744.5	705.2
45°	643.8	690.5	742.1	692.9	648.7
47.5°	570.1	626.6	688.0	633.9	575.0
50°	484.1	555.3	631.5	560.2	486.5
52.5°	398.1	466.9	570.1	471.8	398.1
55°	317.0	383.3	506.2	385.8	319.4
57.5°	243.3	302.2	422.6	307.1	243.3
60°	186.7	231.0	326.8	233.4	189.2
62.5°	147.4	174.5	240.8	172.0	147.4
65°	120.4	135.1	167.1	135.1	120.4
67.5°	95.8	105.7	110.6	105.7	95.8
70°	71.3	81.1	76.2	81.1	68.8
72.5°	41.8	51.6	51.6	51.6	39.3
75°	22.1	24.6	31.9	24.6	22.1
77.5°	17.2	17.2	19.7	17.2	17.2
80°	12.3	12.3	12.3	12.3	12.3
82.5°	7.4	7.4	7.4	7.4	7.4
85°	4.9	4.9	4.9	4.9	4.9
87.5°	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)