

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: P252884

Luminaire Tested: **PRS415D010-S4M12-44SWDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252884
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: PRS415D010-S4M12-44SWDH-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: 1239.3 lumens
Efficiency: N/A
Efficacy: 103.3 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

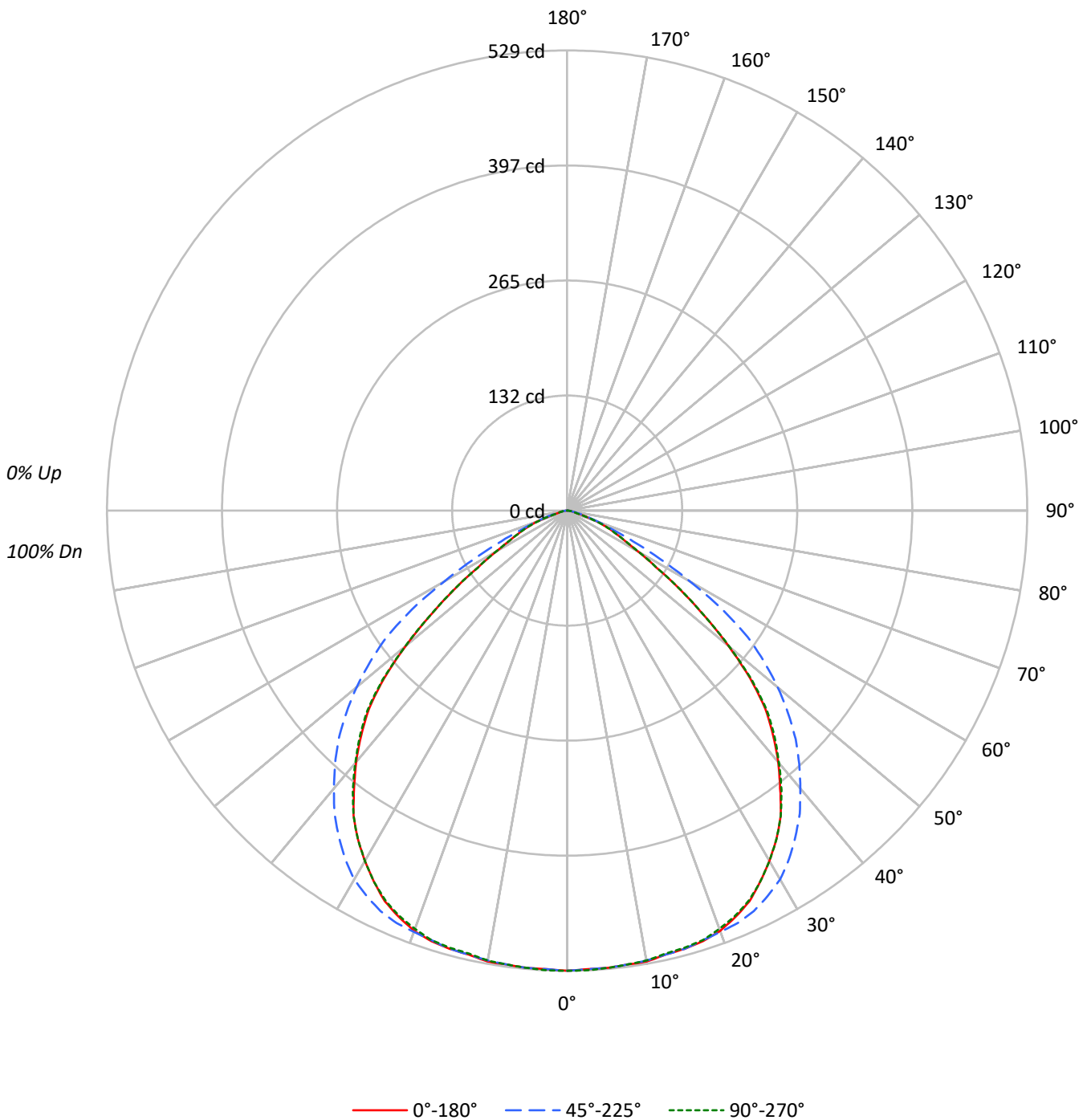
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252884

CATALOG NUMBER: PRS415D010-S4M12-44SWDH-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P252884

CATALOG NUMBER: PRS415D010-S4M12-44SWDH-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°	40491	40491	40491
5°	40546	40546	40546
10°	40922	40829	40829
15°	41333	41333	41230
20°	41885	41982	41681
25°	41865	42904	41764
30°	41099	43273	41099
35°	40003	42759	40003
40°	37730	41667	37860
45°	34889	40214	35159
50°	28853	37641	29008
55°	21178	33816	21339
60°	14314	25045	14497
65°	10921	15141	10921
70°	7990	8527	7699
75°	3283	4732	3283
80°	2733	2733	2733
85°	2196	2196	2196



TEST NUMBER: P252884

CATALOG NUMBER: PRS415D010-S4M12-44SWDH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	4.1
10°-20°	147.4	11.9
20°-30°	230.2	18.6
30°-40°	275.4	22.2
40°-50°	264.7	21.4
50°-60°	177.8	14.3
60°-70°	72.6	5.9
70°-80°	18.0	1.5
80°-90°	2.9	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°	427.9	34.5
0°-40°	703.3	56.8
0°-60°	1145.8	92.5
0°-90°	1239.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1239.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	528	528	528	528	528	50
15°	522	522	522	520	520	148
25°	496	501	508	499	494	228
35°	428	440	458	442	428	266
45°	322	346	372	347	325	244
55°	159	192	253	193	160	144
65°	60	68	84	68	60	61
75°	11	12	16	12	11	16
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



TEST NUMBER: P252884

CATALOG NUMBER: PRS415D010-S4M12-44SWDH-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.0	529.0	529.0	529.0	529.0
2.5°	527.7	527.7	527.7	529.0	529.0
5°	527.7	527.7	527.7	527.7	527.7
7.5°	526.5	526.5	526.5	526.5	526.5
10°	526.5	525.3	525.3	525.3	525.3
12.5°	522.8	522.8	522.8	522.8	521.6
15°	521.6	521.6	521.6	520.3	520.3
17.5°	519.1	519.1	517.9	517.9	517.9
20°	514.2	515.4	515.4	514.2	511.7
22.5°	505.6	509.3	513.0	508.0	504.3
25°	495.7	500.7	508.0	499.4	494.5
27.5°	481.0	488.4	499.4	488.4	481.0
30°	465.0	474.8	489.6	474.8	465.0
32.5°	447.8	458.8	474.8	458.8	447.8
35°	428.1	440.4	457.6	441.6	428.1
37.5°	402.2	419.5	439.2	421.9	404.7
40°	377.6	396.1	417.0	397.3	378.9
42.5°	350.6	371.5	394.9	372.7	353.0
45°	322.3	345.7	371.5	346.9	324.8
47.5°	285.4	313.7	344.4	317.4	287.8
50°	242.3	278.0	316.1	280.5	243.6
52.5°	199.3	233.7	285.4	236.2	199.3
55°	158.7	191.9	253.4	193.1	159.9
57.5°	121.8	151.3	211.6	153.8	121.8
60°	93.5	115.6	163.6	116.9	94.7
62.5°	73.8	87.3	120.6	86.1	73.8
65°	60.3	67.7	83.6	67.7	60.3
67.5°	48.0	52.9	55.4	52.9	48.0
70°	35.7	40.6	38.1	40.6	34.4
72.5°	20.9	25.8	25.8	25.8	19.7
75°	11.1	12.3	16.0	12.3	11.1
77.5°	8.6	8.6	9.8	8.6	8.6
80°	6.2	6.2	6.2	6.2	6.2
82.5°	3.7	3.7	3.7	3.7	3.7
85°	2.5	2.5	2.5	2.5	2.5
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)