

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: P252914

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252914
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-S4M12-44SWDMB-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: 1121.7 lumens
Efficiency: N/A
Efficacy: 93.5 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

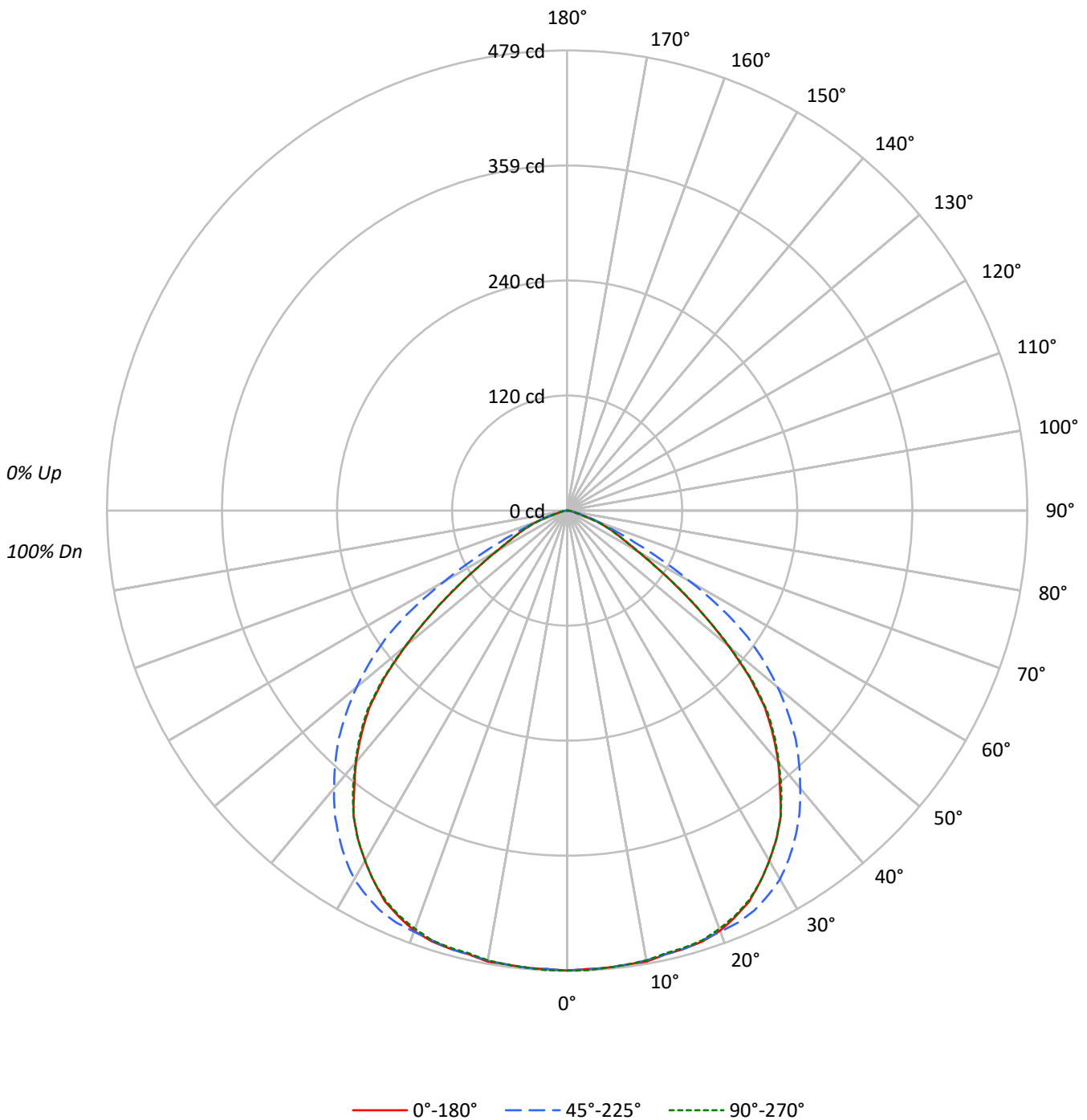
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	36649	36649	36649
5°	36704	36704	36704
10°	37043	36950	36950
15°	37411	37411	37324
20°	37910	37999	37730
25°	37896	38833	37803
30°	37201	39163	37201
35°	36209	38704	36209
40°	34153	37720	34263
45°	31576	36404	31814
50°	26114	34081	26257
55°	19163	30613	19310
60°	12951	22672	13120
65°	9889	13711	9889
70°	7229	7721	6982
75°	2957	4288	2957
80°	2468	2468	2468
85°	1932	1932	1932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	4.1
10°-20°	133.4	11.9
20°-30°	208.4	18.6
30°-40°	249.3	22.2
40°-50°	239.6	21.4
50°-60°	160.9	14.3
60°-70°	65.7	5.9
70°-80°	16.3	1.5
80°-90°	2.6	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°	387.3	34.5
0°-40°	636.6	56.8
0°-60°	1037.1	92.5
0°-90°	1121.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1121.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	479	479	479	479	479	
5°	478	478	478	478	478	46
15°	472	472	472	471	471	134
25°	449	453	460	452	448	206
35°	388	399	414	400	388	241
45°	292	313	336	314	294	221
55°	144	174	229	175	145	130
65°	55	61	76	61	55	55
75°	10	11	14	11	10	15
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	478.8	478.8	478.8	478.8	478.8
2.5°	477.7	477.7	477.7	478.8	478.8
5°	477.7	477.7	477.7	477.7	477.7
7.5°	476.6	476.6	476.6	476.6	476.6
10°	476.6	475.4	475.4	475.4	475.4
12.5°	473.2	473.2	473.2	473.2	472.1
15°	472.1	472.1	472.1	471.0	471.0
17.5°	469.9	469.9	468.8	468.8	468.8
20°	465.4	466.5	466.5	465.4	463.2
22.5°	457.6	461.0	464.3	459.8	456.5
25°	448.7	453.2	459.8	452.1	447.6
27.5°	435.4	442.0	452.1	442.0	435.4
30°	420.9	429.8	443.1	429.8	420.9
32.5°	405.3	415.3	429.8	415.3	405.3
35°	387.5	398.6	414.2	399.7	387.5
37.5°	364.1	379.7	397.5	381.9	366.3
40°	341.8	358.5	377.5	359.6	342.9
42.5°	317.3	336.3	357.4	337.4	319.6
45°	291.7	312.9	336.3	314.0	293.9
47.5°	258.3	283.9	311.8	287.3	260.5
50°	219.3	251.6	286.2	253.9	220.5
52.5°	180.4	211.6	258.3	213.8	180.4
55°	143.6	173.7	229.4	174.8	144.7
57.5°	110.2	137.0	191.5	139.2	110.2
60°	84.6	104.7	148.1	105.8	85.7
62.5°	66.8	79.1	109.1	77.9	66.8
65°	54.6	61.2	75.7	61.2	54.6
67.5°	43.4	47.9	50.1	47.9	43.4
70°	32.3	36.7	34.5	36.7	31.2
72.5°	18.9	23.4	23.4	23.4	17.8
75°	10.0	11.1	14.5	11.1	10.0
77.5°	7.8	7.8	8.9	7.8	7.8
80°	5.6	5.6	5.6	5.6	5.6
82.5°	3.3	3.3	3.3	3.3	3.3
85°	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)