

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: P252904

Luminaire Tested: **PRS415D010-S4M12-44SWDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252904
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-S4M12-44SWDMW
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1343.2 lumens
Efficiency: N/A
Efficacy: 111.9 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

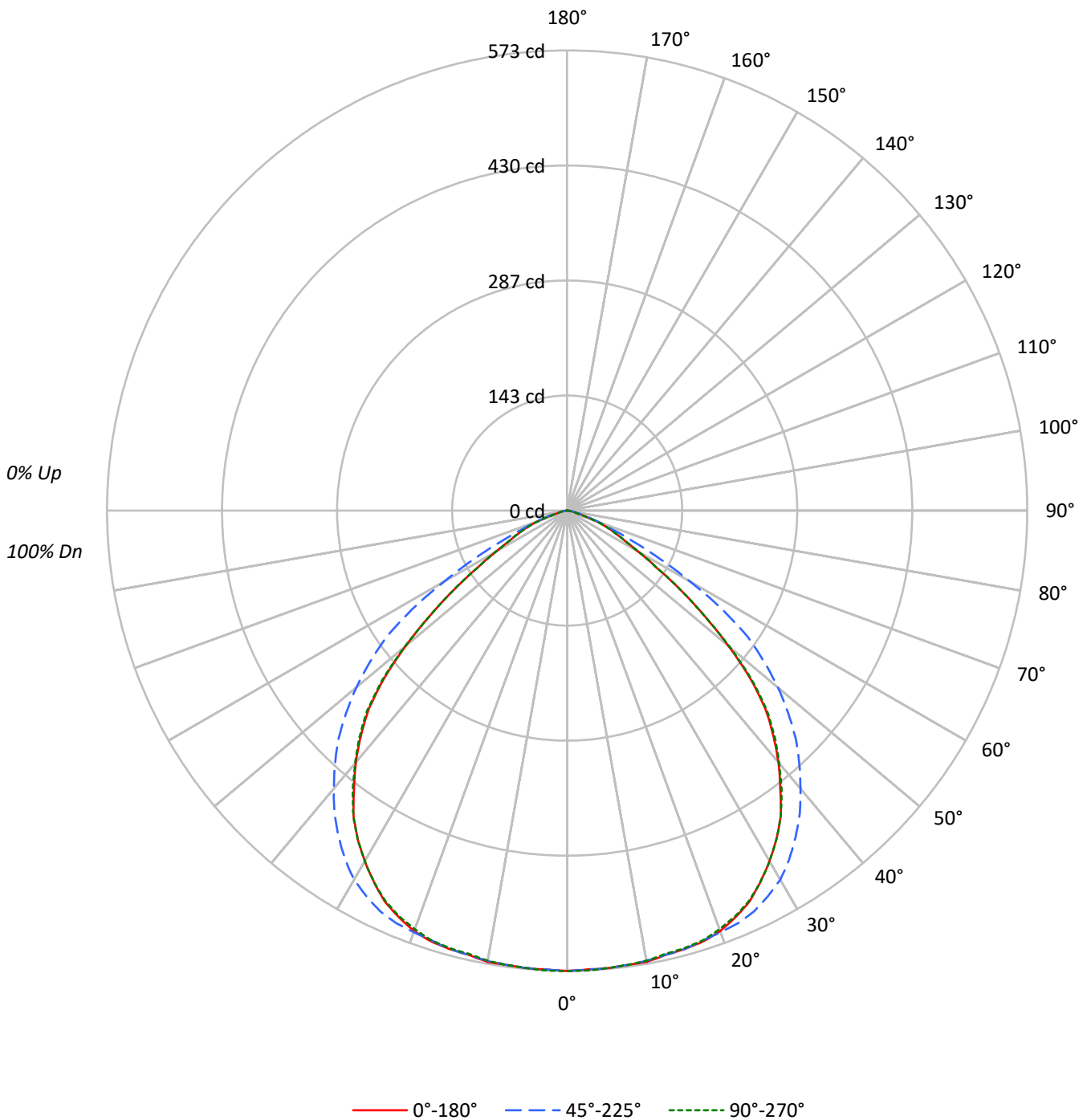
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	43882	43882	43882
5°	43950	43950	43950
10°	44357	44248	44248
15°	44796	44796	44693
20°	45395	45509	45184
25°	45378	46510	45269
30°	44546	46906	44546
35°	43357	46347	43357
40°	40897	45164	41037
45°	37811	43592	38104
50°	31282	40809	31437
55°	22953	36659	23127
60°	15508	27142	15722
65°	11827	16427	11827
70°	8661	9243	8348
75°	3549	5116	3549
80°	2953	2953	2953
85°	2371	2371	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	4.1
10°-20°	159.8	11.9
20°-30°	249.6	18.6
30°-40°	298.5	22.2
40°-50°	286.9	21.4
50°-60°	192.7	14.3
60°-70°	78.7	5.9
70°-80°	19.5	1.5
80°-90°	3.1	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°	463.8	34.5
0°-40°	762.3	56.8
0°-60°	1241.9	92.5
0°-90°	1343.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	572	572	572	572	572	55
15°	565	565	565	564	564	160
25°	537	543	551	541	536	247
35°	464	477	496	479	464	288
45°	349	375	403	376	352	265
55°	172	208	275	209	173	156
65°	65	73	91	73	65	66
75°	12	13	17	13	12	18
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.3	573.3	573.3	573.3	573.3
2.5°	572.0	572.0	572.0	573.3	573.3
5°	572.0	572.0	572.0	572.0	572.0
7.5°	570.7	570.7	570.7	570.7	570.7
10°	570.7	569.3	569.3	569.3	569.3
12.5°	566.7	566.7	566.7	566.7	565.3
15°	565.3	565.3	565.3	564.0	564.0
17.5°	562.7	562.7	561.3	561.3	561.3
20°	557.3	558.7	558.7	557.3	554.7
22.5°	548.0	552.0	556.0	550.7	546.7
25°	537.3	542.7	550.7	541.3	536.0
27.5°	521.3	529.3	541.3	529.3	521.3
30°	504.0	514.7	530.7	514.7	504.0
32.5°	485.3	497.3	514.7	497.3	485.3
35°	464.0	477.3	496.0	478.7	464.0
37.5°	436.0	454.7	476.0	457.3	438.7
40°	409.3	429.3	452.0	430.7	410.7
42.5°	380.0	402.7	428.0	404.0	382.7
45°	349.3	374.7	402.7	376.0	352.0
47.5°	309.3	340.0	373.3	344.0	312.0
50°	262.7	301.3	342.7	304.0	264.0
52.5°	216.0	253.3	309.3	256.0	216.0
55°	172.0	208.0	274.7	209.3	173.3
57.5°	132.0	164.0	229.3	166.7	132.0
60°	101.3	125.3	177.3	126.7	102.7
62.5°	80.0	94.7	130.7	93.3	80.0
65°	65.3	73.3	90.7	73.3	65.3
67.5°	52.0	57.3	60.0	57.3	52.0
70°	38.7	44.0	41.3	44.0	37.3
72.5°	22.7	28.0	28.0	28.0	21.3
75°	12.0	13.3	17.3	13.3	12.0
77.5°	9.3	9.3	10.7	9.3	9.3
80°	6.7	6.7	6.7	6.7	6.7
82.5°	4.0	4.0	4.0	4.0	4.0
85°	2.7	2.7	2.7	2.7	2.7
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)