

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: P210556

Luminaire Tested: **PR8S15D010 - PR8M12WDMW - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S15D010 - PR8M12WDMW - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1423.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

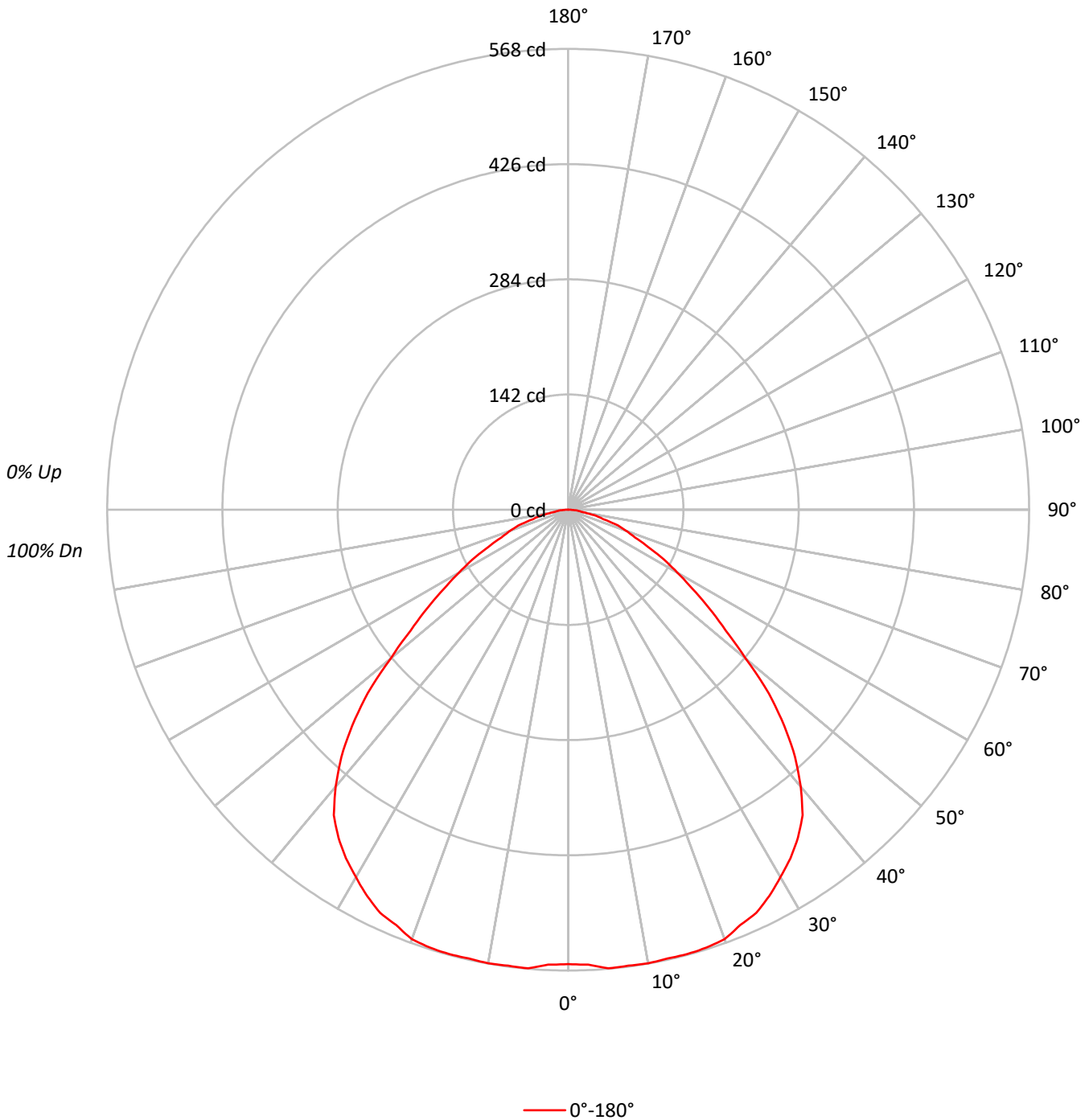
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95		96	94	92		92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69		77	72	68		74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52		63	57	52		61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46		57	51	46		55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41		52	46	41		51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37		48	42	37		47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34		44	38	33		43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17275
5°	17563
10°	17776
15°	18104
20°	18488
25°	18655
30°	18626
35°	18581
40°	17937
45°	16423
50°	13720
55°	11408
60°	9590
65°	7924
70°	6816
75°	5349
80°	3694
85°	3892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	3.8
10°-20°	160.5	11.3
20°-30°	252.0	17.7
30°-40°	307.2	21.6
40°-50°	287.1	20.2
50°-60°	191.5	13.5
60°-70°	110.2	7.7
70°-80°	50.8	3.6
80°-90°	10.3	0.7
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°	466.6	32.8
0°-40°	773.8	54.3
0°-60°	1252.4	88.0
0°-90°	1423.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	560	
5°	567	54
15°	567	160
25°	548	252
35°	494	307
45°	377	287
55°	212	192
65°	109	110
75°	45	51
85°	11	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	560.2
2.5°	561.1
5°	567.4
7.5°	566.9
10°	567.7
12.5°	566.6
15°	567.1
17.5°	566.0
20°	563.4
22.5°	554.1
25°	548.3
27.5°	536.7
30°	523.1
32.5°	509.5
35°	493.6
37.5°	474.5
40°	445.6
42.5°	414.0
45°	376.6
47.5°	335.2
50°	286.0
52.5°	244.3
55°	212.2
57.5°	181.5
60°	155.5
62.5°	132.9
65°	108.6
67.5°	89.2
70°	75.6
72.5°	64.3
75°	44.9
77.5°	35.6
80°	20.8
82.5°	13.3
85°	11.0
87.5°	3.2
90°	0.0

(END OF REPORT)