

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: P210510

Luminaire Tested: **PR8S15D010 - PR8M12MDMW - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29044)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR8S15D010 - PR8M12MDMW - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE WHITE FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1522.3 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

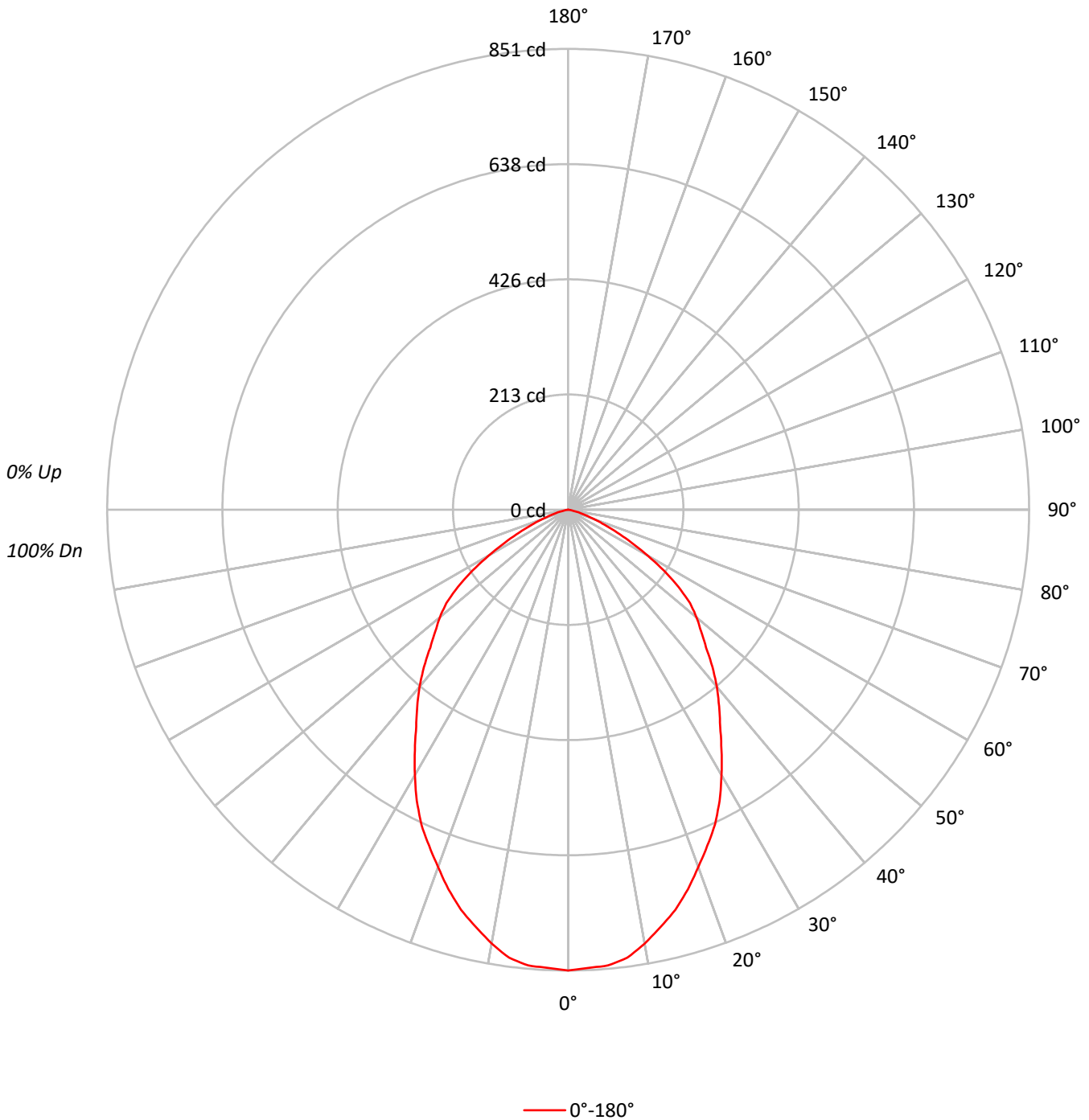
Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P210510

CATALOG NUMBER: PR8S15D010 - PR8M12MDMW - 3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P210510

CATALOG NUMBER: PR8S15D010 - PR8M12MDMW - 3500K

**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	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63		72	67	62		70	65	61	60
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	26242
5°	26153
10°	25472
15°	24422
20°	23040
25°	21820
30°	20161
35°	18408
40°	17184
45°	15695
50°	14843
55°	13365
60°	10447
65°	7275
70°	4616
75°	2609
80°	728
85°	0



TEST NUMBER: P210510

CATALOG NUMBER: PR8S15D010 - PR8M12MDMW - 3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	5.2
10°-20°	214.3	14.1
20°-30°	293.5	19.3
30°-40°	307.6	20.2
40°-50°	280.4	18.4
50°-60°	218.8	14.4
60°-70°	101.9	6.7
70°-80°	25.4	1.7
80°-90°	0.7	0.0
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°	587.5	38.6
0°-40°	895.1	58.8
0°-60°	1394.3	91.6
0°-90°	1522.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1522.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	851	
5°	845	80
15°	765	214
25°	641	293
35°	489	308
45°	360	280
55°	249	219
65°	100	102
75°	22	25
85°	0	1
90°	0	



TEST NUMBER: P210510

CATALOG NUMBER: PR8S15D010 - PR8M12MDMW - 3500K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	851.0
2.5°	846.9
5°	844.9
7.5°	834.6
10°	813.5
12.5°	788.9
15°	765.0
17.5°	734.9
20°	702.1
22.5°	671.4
25°	641.3
27.5°	605.1
30°	566.2
32.5°	526.6
35°	489.0
37.5°	457.6
40°	426.9
42.5°	394.1
45°	359.9
47.5°	332.6
50°	309.4
52.5°	283.4
55°	248.6
57.5°	209.7
60°	169.4
62.5°	131.1
65°	99.7
67.5°	72.4
70°	51.2
72.5°	34.8
75°	21.9
77.5°	12.3
80°	4.1
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)