

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: P210320

Luminaire Tested: **PR8R15D010 - PR8M12MDMW - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210320  
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: PR8R15D010 - 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: 1800.3 lumens  
Efficiency: N/A  
Efficacy: 120.0 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

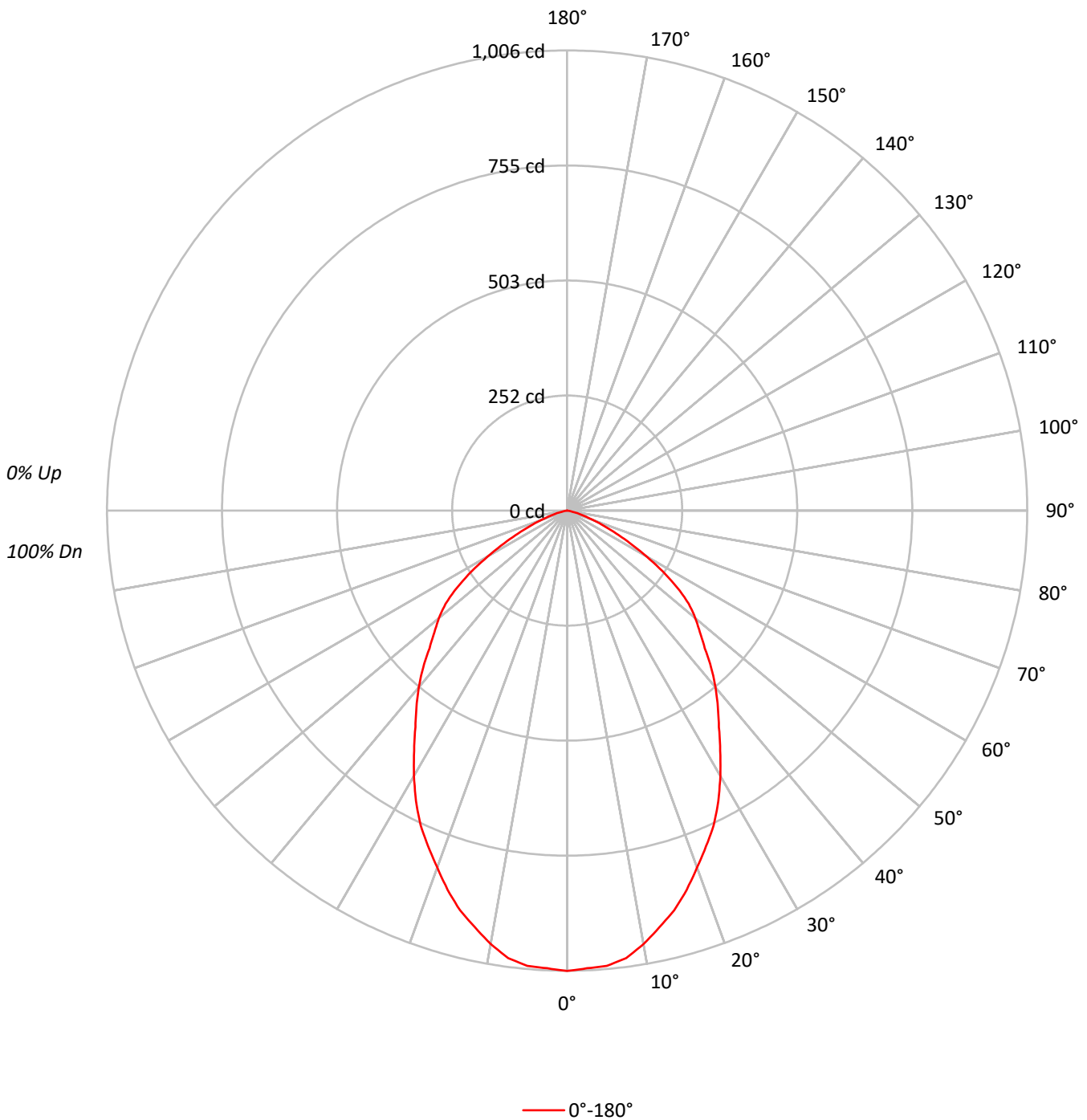
Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P210320

CATALOG NUMBER: PR8R15D010 - PR8M12MDMW - 3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P210320

CATALOG NUMBER: PR8R15D010 - 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°	31034
5°	30926
10°	30122
15°	28879
20°	27247
25°	25804
30°	23842
35°	21770
40°	20320
45°	18564
50°	17553
55°	15806
60°	12353
65°	8603
70°	5464
75°	3074
80°	852
85°	0



TEST NUMBER: P210320

CATALOG NUMBER: PR8R15D010 - PR8M12MDMW - 3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	5.2
10°-20°	253.4	14.1
20°-30°	347.1	19.3
30°-40°	363.8	20.2
40°-50°	331.6	18.4
50°-60°	258.8	14.4
60°-70°	120.5	6.7
70°-80°	30.0	1.7
80°-90°	0.9	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°	694.7	38.6
0°-40°	1058.5	58.8
0°-60°	1649.0	91.6
0°-90°	1800.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1006	
5°	999	94
15°	905	253
25°	758	347
35°	578	364
45°	426	332
55°	294	259
65°	118	120
75°	26	30
85°	0	1
90°	0	



TEST NUMBER: P210320

CATALOG NUMBER: PR8R15D010 - PR8M12MDMW - 3500K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1006.4
2.5°	1001.6
5°	999.1
7.5°	987.0
10°	962.0
12.5°	932.9
15°	904.6
17.5°	869.1
20°	830.3
22.5°	794.0
25°	758.4
27.5°	715.6
30°	669.6
32.5°	622.7
35°	578.3
37.5°	541.2
40°	504.8
42.5°	466.1
45°	425.7
47.5°	393.4
50°	365.9
52.5°	335.2
55°	294.0
57.5°	248.0
60°	200.3
62.5°	155.1
65°	117.9
67.5°	85.6
70°	60.6
72.5°	41.2
75°	25.8
77.5°	14.5
80°	4.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)