

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: P210091

Luminaire Tested: **PR815D010 - PR8M12MDMW - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210091  
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: PR815D010 - PR8M12MDMW - 4000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 1689.6 lumens  
Efficiency: N/A  
Efficacy: 112.6 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

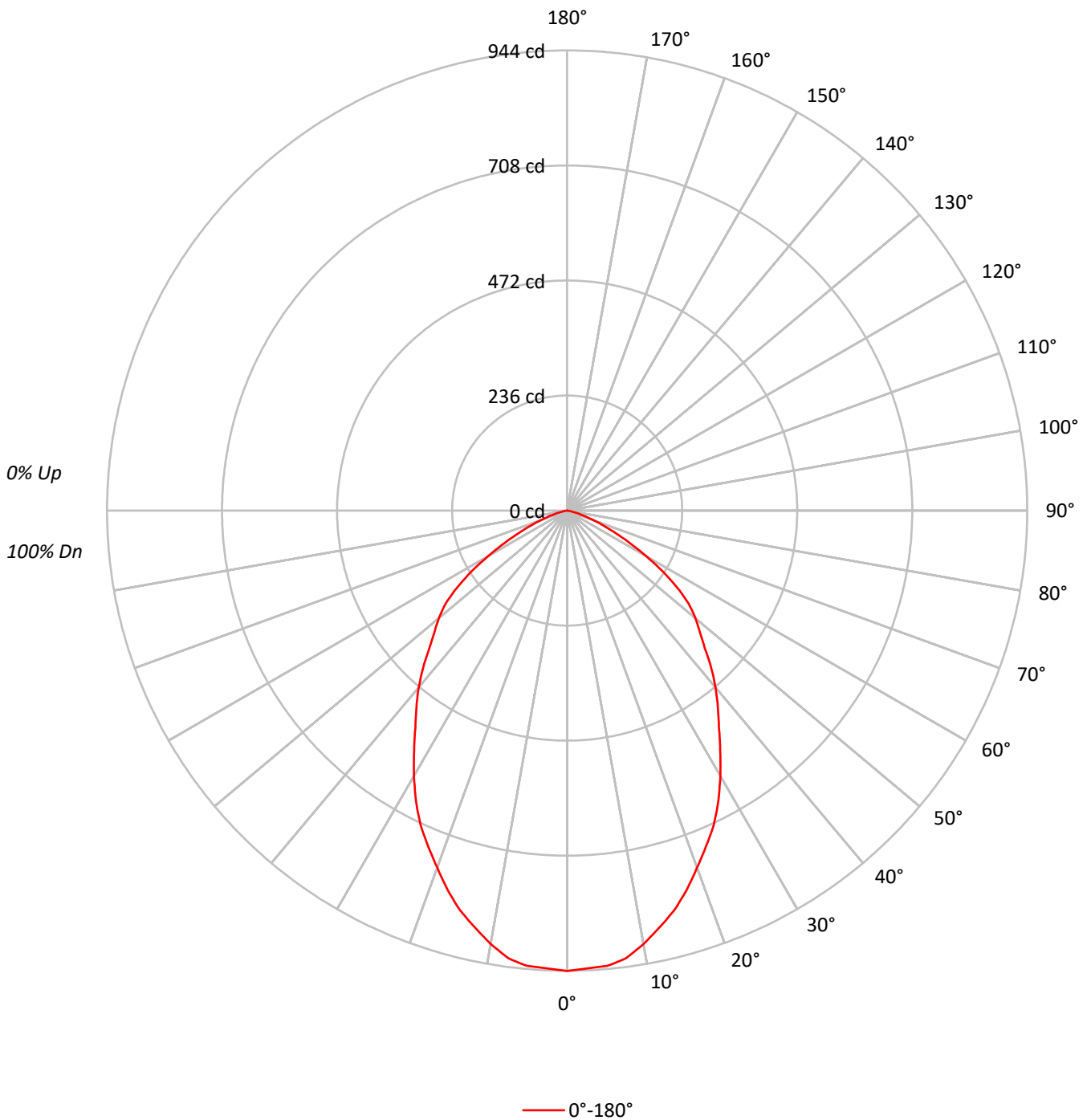
Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P210091

CATALOG NUMBER: PR815D010 - PR8M12MDMW - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P210091

CATALOG NUMBER: PR815D010 - PR8M12MDMW - 4000K

**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°	29125
5°	29026
10°	28268
15°	27104
20°	25573
25°	24218
30°	22375
35°	20430
40°	19072
45°	17422
50°	16474
55°	14833
60°	11594
65°	8077
70°	5130
75°	2895
80°	799
85°	0



TEST NUMBER: P210091

CATALOG NUMBER: PR815D010 - PR8M12MDMW - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	5.2
10°-20°	237.9	14.1
20°-30°	325.7	19.3
30°-40°	341.4	20.2
40°-50°	311.2	18.4
50°-60°	242.9	14.4
60°-70°	113.1	6.7
70°-80°	28.2	1.7
80°-90°	0.8	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°	652.0	38.6
0°-40°	993.4	58.8
0°-60°	1547.5	91.6
0°-90°	1689.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1689.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	944	
5°	938	88
15°	849	238
25°	712	326
35°	543	341
45°	400	311
55°	276	243
65°	111	113
75°	24	28
85°	0	1
90°	0	



TEST NUMBER: P210091

CATALOG NUMBER: PR815D010 - PR8M12MDMW - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	944.5
2.5°	940.0
5°	937.7
7.5°	926.3
10°	902.8
12.5°	875.5
15°	849.0
17.5°	815.6
20°	779.3
22.5°	745.1
25°	711.8
27.5°	671.6
30°	628.4
32.5°	584.4
35°	542.7
37.5°	507.9
40°	473.8
42.5°	437.4
45°	399.5
47.5°	369.2
50°	343.4
52.5°	314.6
55°	275.9
57.5°	232.7
60°	188.0
62.5°	145.5
65°	110.7
67.5°	80.4
70°	56.9
72.5°	38.7
75°	24.3
77.5°	13.6
80°	4.5
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)