

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: P210334

Luminaire Tested: **PR8R15D010 - PR8M12MDMB - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210334  
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 - PR8M12MDMB - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1455.4 lumens  
Efficiency: N/A  
Efficacy: 97.0 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

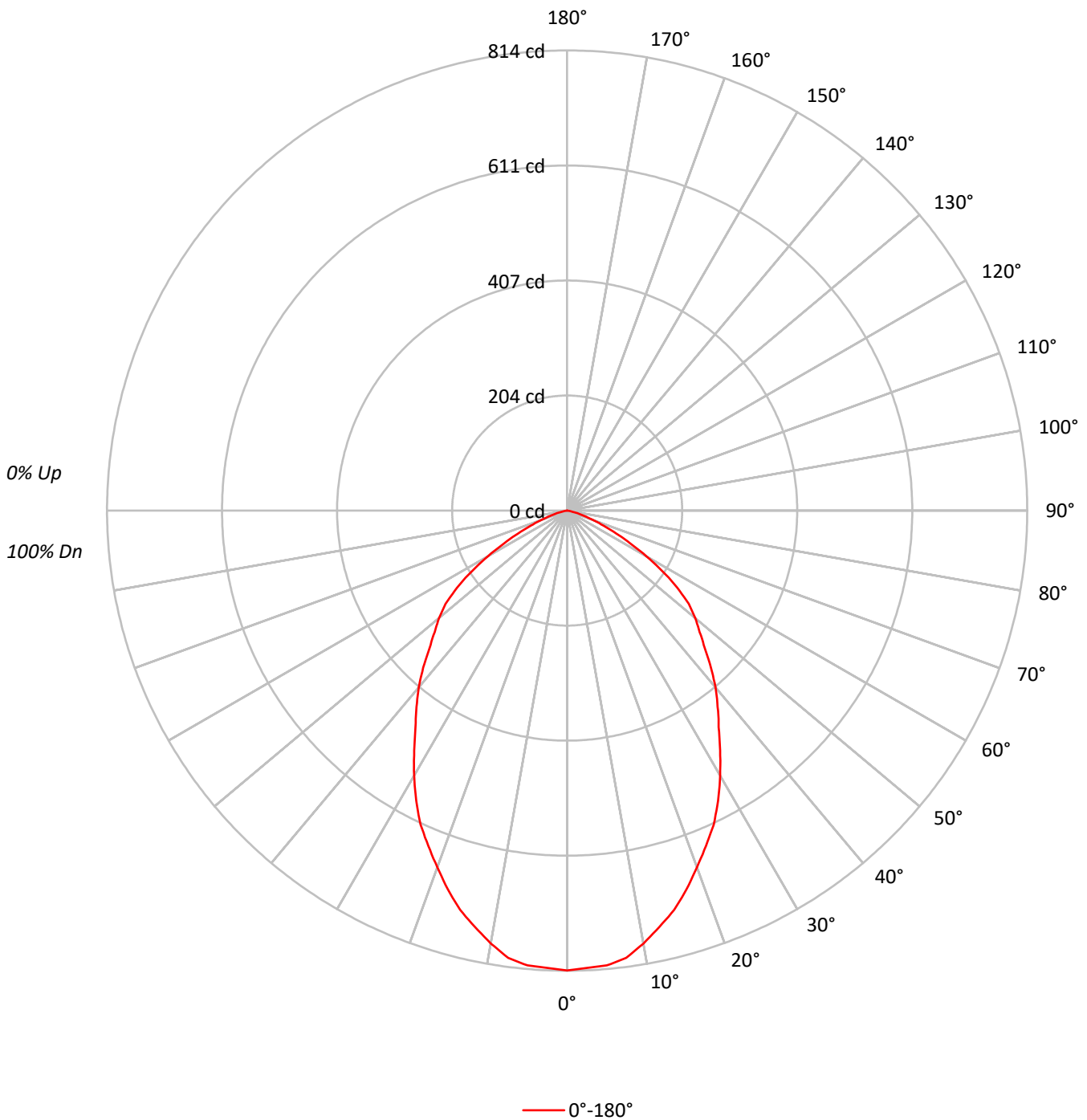
Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	25085
5°	25002
10°	24348
15°	23346
20°	22026
25°	20860
30°	19274
35°	17599
40°	16428
45°	15006
50°	14190
55°	12779
60°	9985
65°	6954
70°	4418
75°	2490
80°	693
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	5.2
10°-20°	204.9	14.1
20°-30°	280.6	19.3
30°-40°	294.1	20.2
40°-50°	268.1	18.4
50°-60°	209.2	14.4
60°-70°	97.4	6.7
70°-80°	24.3	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°	561.6	38.6
0°-40°	855.7	58.8
0°-60°	1333.0	91.6
0°-90°	1455.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	814	
5°	808	76
15°	731	205
25°	613	281
35°	468	294
45°	344	268
55°	238	209
65°	95	97
75°	21	24
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	813.5
2.5°	809.6
5°	807.7
7.5°	797.9
10°	777.6
12.5°	754.1
15°	731.3
17.5°	702.5
20°	671.2
22.5°	641.8
25°	613.1
27.5°	578.5
30°	541.3
32.5°	503.4
35°	467.5
37.5°	437.5
40°	408.1
42.5°	376.7
45°	344.1
47.5°	318.0
50°	295.8
52.5°	271.0
55°	237.7
57.5°	200.4
60°	161.9
62.5°	125.4
65°	95.3
67.5°	69.2
70°	49.0
72.5°	33.3
75°	20.9
77.5°	11.8
80°	3.9
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)