

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: P210380

Luminaire Tested: **PR8R15D010 - PR8M12WDMB - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210380  
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: PR8R15D010 - PR8M12WDMB - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1626.8 lumens  
Efficiency: N/A  
Efficacy: 108.5 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

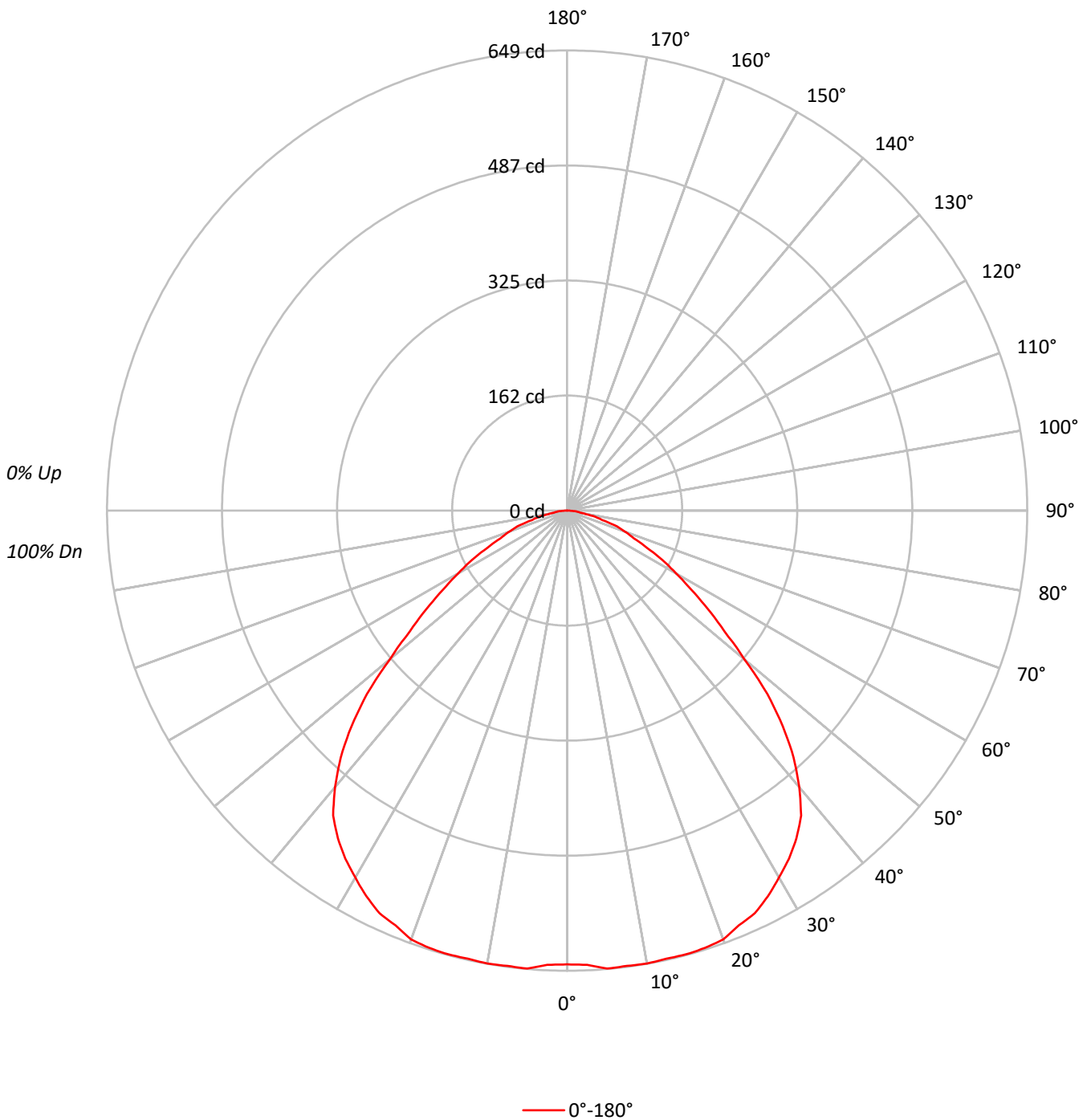
Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	19738
5°	20071
10°	20312
15°	20687
20°	21123
25°	21316
30°	21282
35°	21231
40°	20493
45°	18769
50°	15678
55°	13037
60°	10953
65°	9048
70°	7781
75°	6112
80°	4226
85°	4458



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.8	3.8
10°-20°	183.4	11.3
20°-30°	288.0	17.7
30°-40°	351.0	21.6
40°-50°	328.1	20.2
50°-60°	218.8	13.5
60°-70°	125.9	7.7
70°-80°	58.1	3.6
80°-90°	11.8	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°	533.1	32.8
0°-40°	884.1	54.3
0°-60°	1431.1	88.0
0°-90°	1626.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1626.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	640	
5°	648	62
15°	648	183
25°	626	288
35°	564	351
45°	430	328
55°	242	219
65°	124	126
75°	51	58
85°	13	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	640.1
2.5°	641.1
5°	648.4
7.5°	647.7
10°	648.7
12.5°	647.4
15°	648.0
17.5°	646.7
20°	643.7
22.5°	633.1
25°	626.5
27.5°	613.3
30°	597.7
32.5°	582.2
35°	564.0
37.5°	542.2
40°	509.1
42.5°	473.0
45°	430.4
47.5°	383.1
50°	326.8
52.5°	279.2
55°	242.5
57.5°	207.4
60°	177.6
62.5°	151.8
65°	124.0
67.5°	101.9
70°	86.3
72.5°	73.4
75°	51.3
77.5°	40.7
80°	23.8
82.5°	15.2
85°	12.6
87.5°	3.6
90°	0.0

(END OF REPORT)