

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: P210164

Luminaire Tested: **PR815D010 - PR8M12WDMW - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210164  
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: PR815D010 - PR8M12WDMW - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1591.4 lumens  
Efficiency: N/A  
Efficacy: 106.1 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

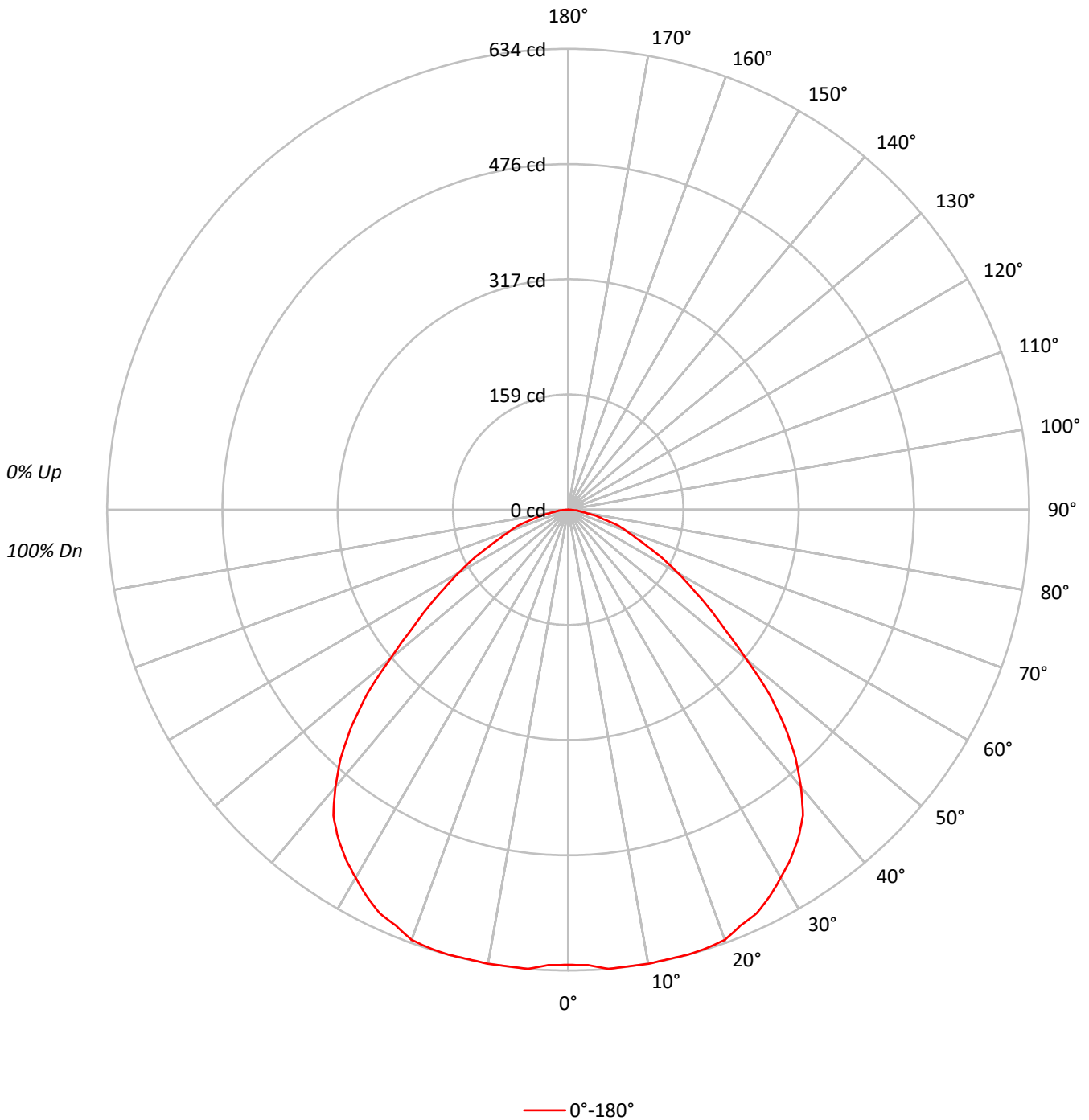
Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	19307
5°	19631
10°	19867
15°	20237
20°	20664
25°	20853
30°	20819
35°	20768
40°	20046
45°	18359
50°	15337
55°	12752
60°	10719
65°	8851
70°	7618
75°	5981
80°	4138
85°	4352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	3.8
10°-20°	179.4	11.3
20°-30°	281.7	17.7
30°-40°	343.4	21.6
40°-50°	320.9	20.2
50°-60°	214.1	13.5
60°-70°	123.2	7.7
70°-80°	56.8	3.6
80°-90°	11.5	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°	521.5	32.8
0°-40°	864.9	54.3
0°-60°	1399.9	88.0
0°-90°	1591.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	626	
5°	634	60
15°	634	179
25°	613	282
35°	552	343
45°	421	321
55°	237	214
65°	121	123
75°	50	57
85°	12	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	626.1
2.5°	627.1
5°	634.2
7.5°	633.6
10°	634.5
12.5°	633.3
15°	633.9
17.5°	632.6
20°	629.7
22.5°	619.3
25°	612.9
27.5°	599.9
30°	584.7
32.5°	569.5
35°	551.7
37.5°	530.4
40°	498.0
42.5°	462.7
45°	421.0
47.5°	374.7
50°	319.7
52.5°	273.1
55°	237.2
57.5°	202.9
60°	173.8
62.5°	148.5
65°	121.3
67.5°	99.7
70°	84.5
72.5°	71.8
75°	50.2
77.5°	39.8
80°	23.3
82.5°	14.9
85°	12.3
87.5°	3.6
90°	0.0

(END OF REPORT)