

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: P210159

Luminaire Tested: **PR810D010 - PR8M12WDMW - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210159  
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: PR810D010 - 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: 1172.3 lumens  
Efficiency: N/A  
Efficacy: 111.6 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

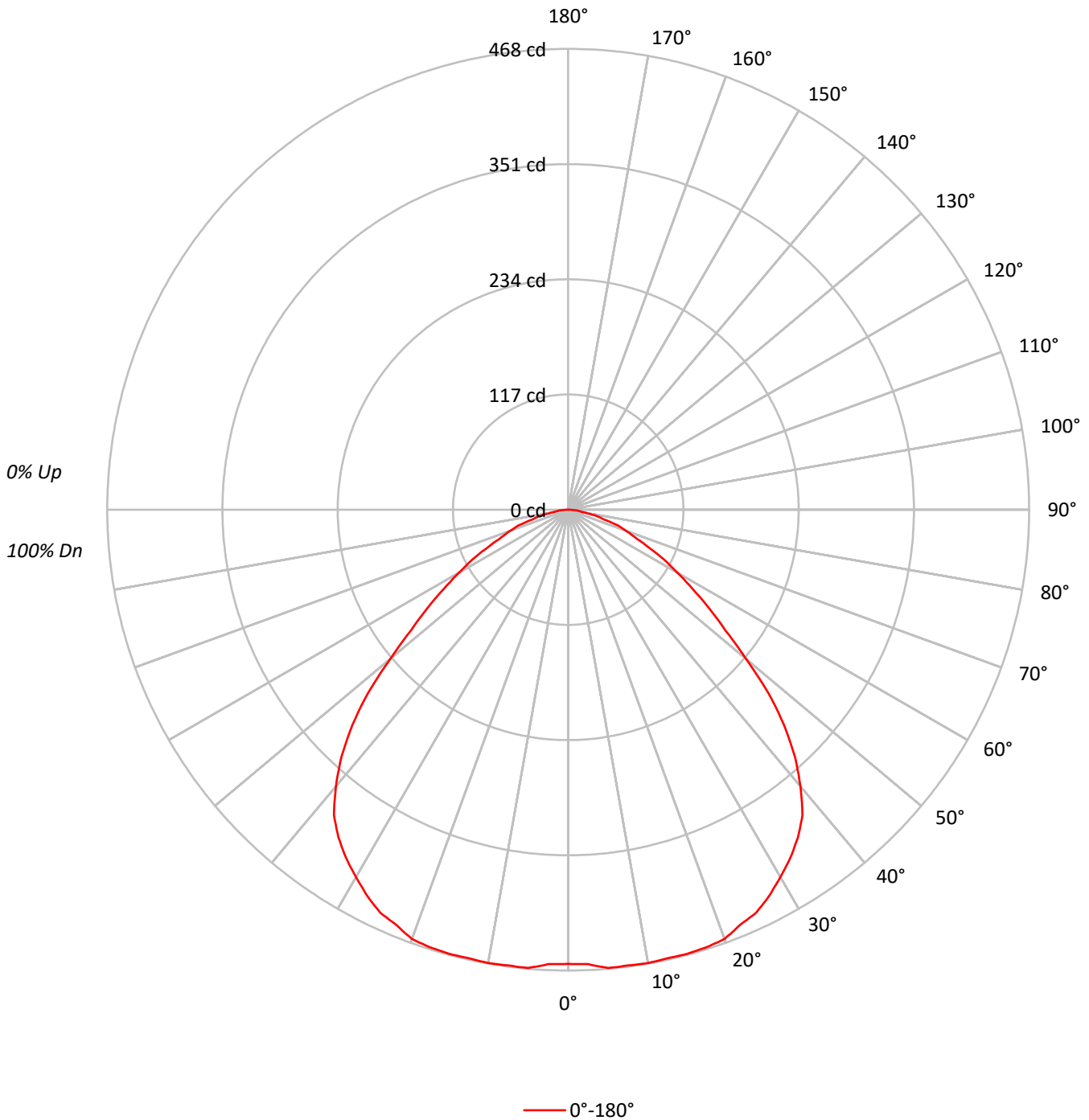
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	14225
5°	14462
10°	14638
15°	14909
20°	15223
25°	15362
30°	15339
35°	15299
40°	14769
45°	13523
50°	11298
55°	9392
60°	7894
65°	6523
70°	5608
75°	4396
80°	3054
85°	3220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	3.8
10°-20°	132.1	11.3
20°-30°	207.5	17.7
30°-40°	253.0	21.6
40°-50°	236.4	20.2
50°-60°	157.7	13.5
60°-70°	90.7	7.7
70°-80°	41.8	3.6
80°-90°	8.5	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°	384.2	32.8
0°-40°	637.2	54.4
0°-60°	1031.3	88.0
0°-90°	1172.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1172.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	461	
5°	467	45
15°	467	132
25°	452	208
35°	406	253
45°	310	236
55°	175	158
65°	89	91
75°	37	42
85°	9	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	461.3
2.5°	462.0
5°	467.2
7.5°	466.8
10°	467.5
12.5°	466.5
15°	467.0
17.5°	466.0
20°	463.9
22.5°	456.3
25°	451.5
27.5°	442.0
30°	430.8
32.5°	419.6
35°	406.4
37.5°	390.7
40°	366.9
42.5°	340.9
45°	310.1
47.5°	276.0
50°	235.5
52.5°	201.2
55°	174.7
57.5°	149.5
60°	128.0
62.5°	109.4
65°	89.4
67.5°	73.4
70°	62.2
72.5°	52.9
75°	36.9
77.5°	29.3
80°	17.2
82.5°	11.0
85°	9.1
87.5°	2.6
90°	0.0

(END OF REPORT)