

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: P210287

Luminaire Tested: **PR810D010 - PR8M12WDMW - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210287  
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 - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1321.7 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

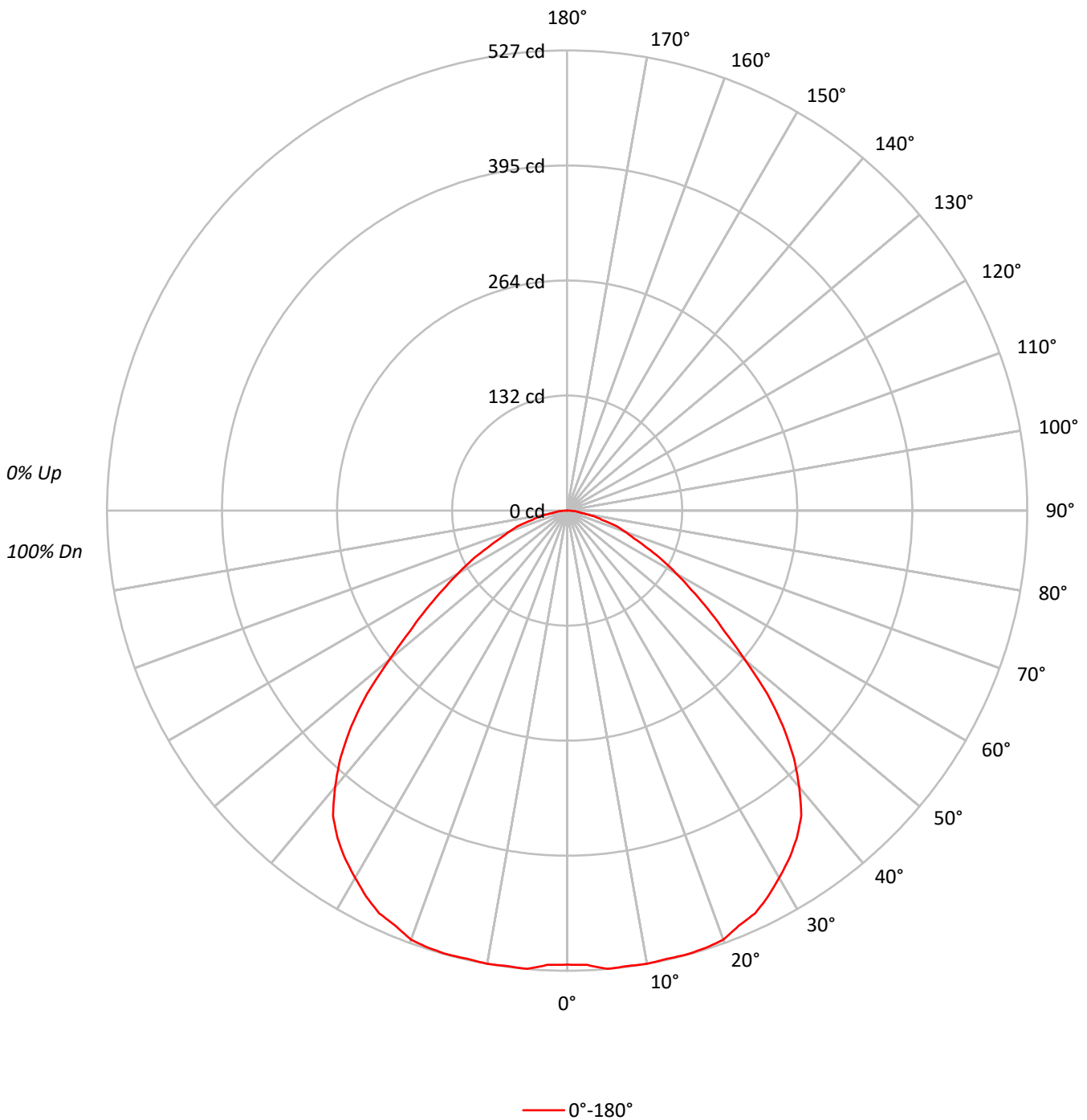
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16035
5°	16307
10°	16501
15°	16808
20°	17162
25°	17318
30°	17291
35°	17249
40°	16649
45°	15246
50°	12737
55°	10591
60°	8899
65°	7355
70°	6320
75°	4968
80°	3445
85°	3609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.2	3.8
10°-20°	149.0	11.3
20°-30°	234.0	17.7
30°-40°	285.2	21.6
40°-50°	266.5	20.2
50°-60°	177.8	13.5
60°-70°	102.3	7.7
70°-80°	47.2	3.6
80°-90°	9.6	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°	433.1	32.8
0°-40°	718.3	54.3
0°-60°	1162.6	88.0
0°-90°	1321.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1321.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	520	
5°	527	50
15°	526	149
25°	509	234
35°	458	285
45°	350	267
55°	197	178
65°	101	102
75°	42	47
85°	10	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	520.0
2.5°	520.8
5°	526.8
7.5°	526.2
10°	527.0
12.5°	526.0
15°	526.5
17.5°	525.4
20°	523.0
22.5°	514.4
25°	509.0
27.5°	498.3
30°	485.6
32.5°	473.0
35°	458.2
37.5°	440.5
40°	413.6
42.5°	384.3
45°	349.6
47.5°	311.2
50°	265.5
52.5°	226.8
55°	197.0
57.5°	168.5
60°	144.3
62.5°	123.4
65°	100.8
67.5°	82.8
70°	70.1
72.5°	59.7
75°	41.7
77.5°	33.1
80°	19.4
82.5°	12.4
85°	10.2
87.5°	3.0
90°	0.0

(END OF REPORT)