

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: P210551

Luminaire Tested: **PR8S10D010 - PR8M12WDMW - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210551  
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: PR8S10D010 - PR8M12WDMW - 4000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1048.9 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

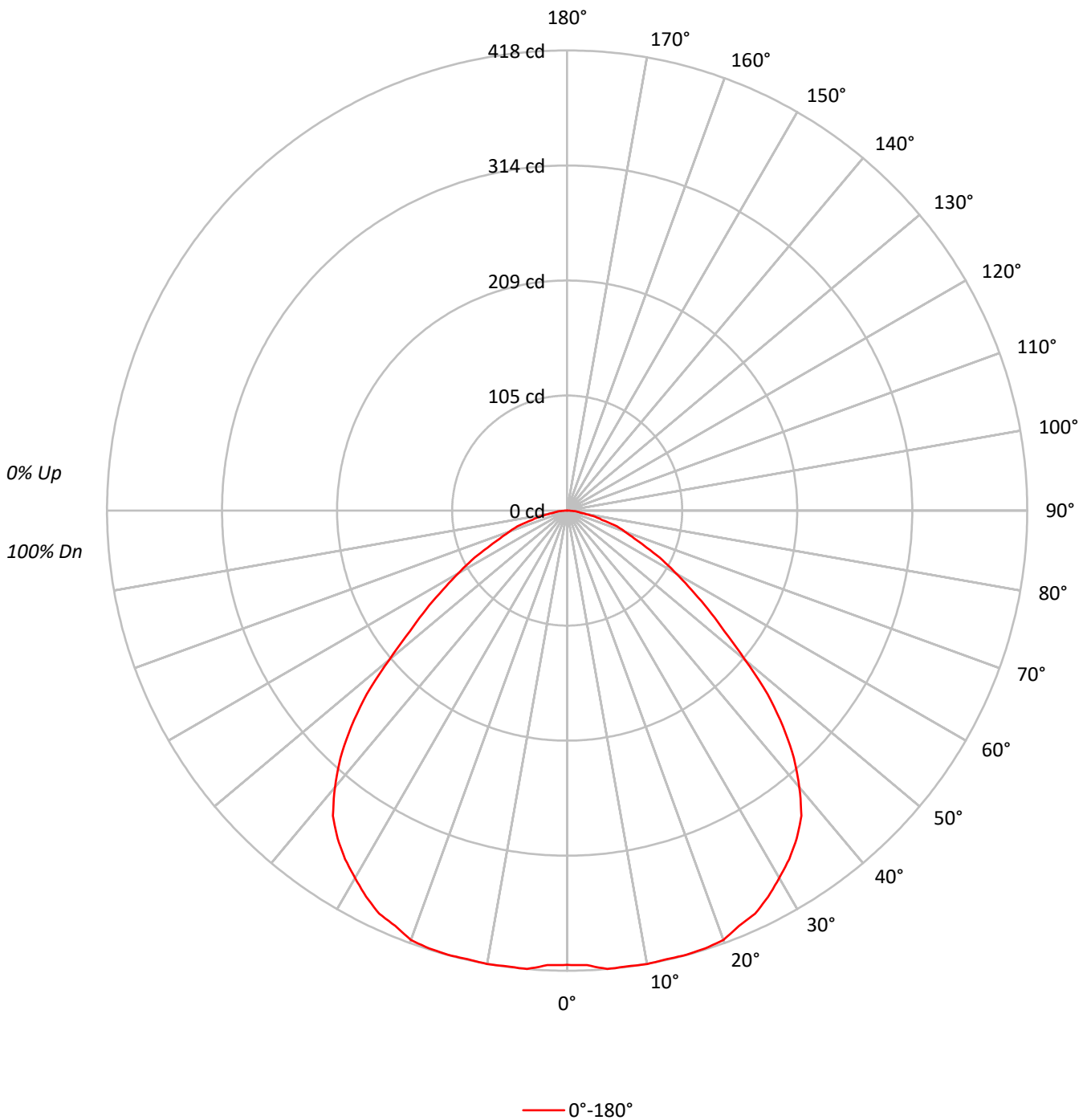
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	12726
5°	12939
10°	13095
15°	13338
20°	13618
25°	13746
30°	13723
35°	13687
40°	13211
45°	12102
50°	10108
55°	8403
60°	7062
65°	5837
70°	5022
75°	3944
80°	2735
85°	2866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.8	3.8
10°-20°	118.2	11.3
20°-30°	185.7	17.7
30°-40°	226.3	21.6
40°-50°	211.5	20.2
50°-60°	141.1	13.5
60°-70°	81.2	7.7
70°-80°	37.4	3.6
80°-90°	7.6	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°	343.7	32.8
0°-40°	570.0	54.3
0°-60°	922.7	88.0
0°-90°	1048.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	413	
5°	418	40
15°	418	118
25°	404	186
35°	364	226
45°	278	212
55°	156	141
65°	80	81
75°	33	37
85°	8	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	412.7
2.5°	413.3
5°	418.0
7.5°	417.6
10°	418.2
12.5°	417.4
15°	417.8
17.5°	417.0
20°	415.0
22.5°	408.2
25°	404.0
27.5°	395.4
30°	385.4
32.5°	375.4
35°	363.6
37.5°	349.6
40°	328.2
42.5°	305.0
45°	277.5
47.5°	247.0
50°	210.7
52.5°	180.0
55°	156.3
57.5°	133.7
60°	114.5
62.5°	97.9
65°	80.0
67.5°	65.7
70°	55.7
72.5°	47.3
75°	33.1
77.5°	26.2
80°	15.4
82.5°	9.8
85°	8.1
87.5°	2.3
90°	0.0

(END OF REPORT)