

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: P210506

Luminaire Tested: **PR8S10D010 - PR8M12MDMW - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29044)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR8S10D010 - PR8M12MDMW - 4000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 1052.6 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

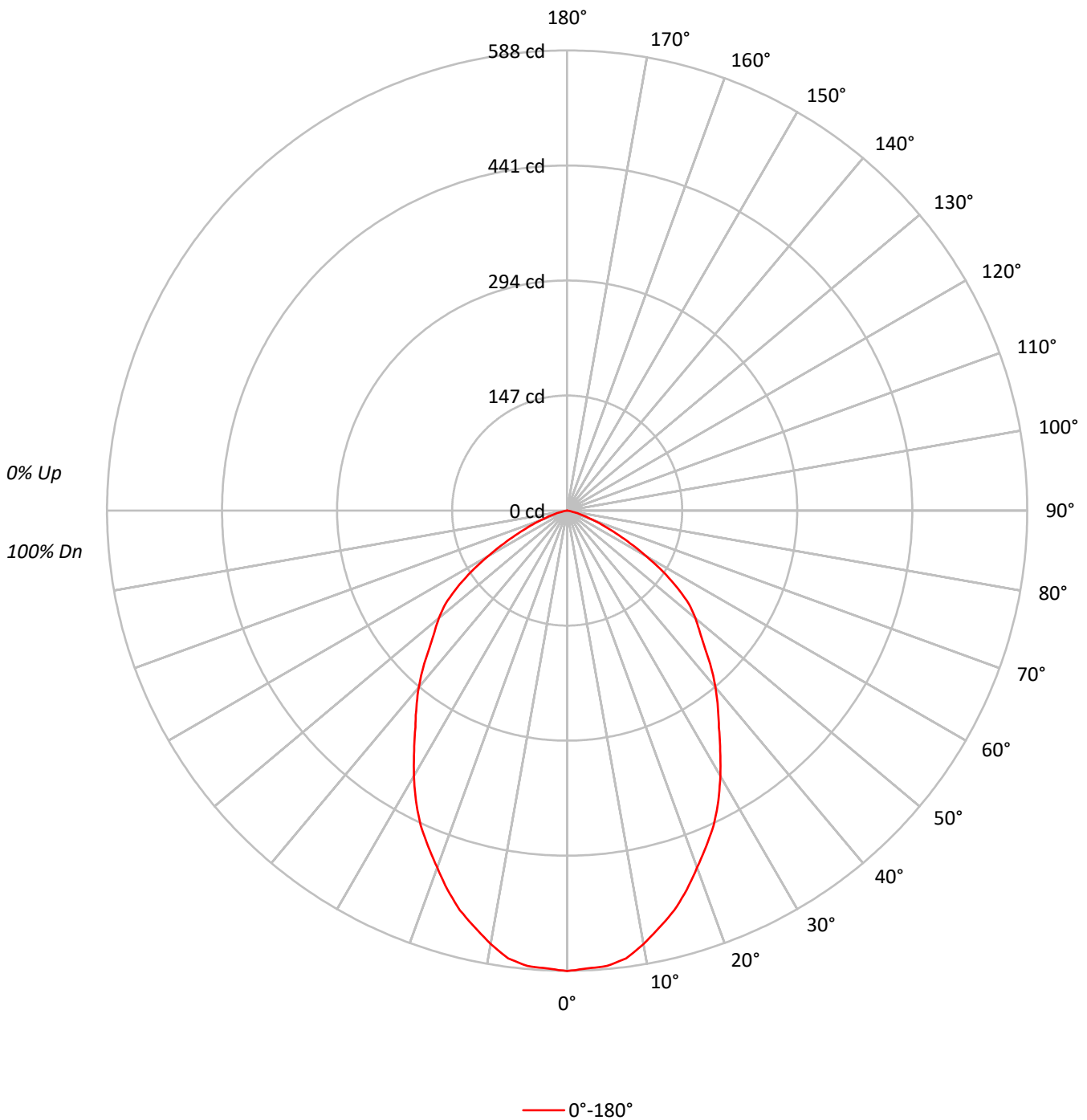
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63		72	67	62		70	65	61	60
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	18144
5°	18080
10°	17610
15°	16885
20°	15929
25°	15086
30°	13940
35°	12728
40°	11879
45°	10854
50°	10261
55°	9242
60°	7222
65°	5027
70°	3192
75°	1799
80°	497
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	5.2
10°-20°	148.2	14.1
20°-30°	202.9	19.3
30°-40°	212.7	20.2
40°-50°	193.9	18.4
50°-60°	151.3	14.4
60°-70°	70.4	6.7
70°-80°	17.5	1.7
80°-90°	0.5	0.0
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°	406.2	38.6
0°-40°	618.9	58.8
0°-60°	964.1	91.6
0°-90°	1052.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	588	
5°	584	55
15°	529	148
25°	443	203
35°	338	213
45°	249	194
55°	172	151
65°	69	70
75°	15	18
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	588.4
2.5°	585.6
5°	584.1
7.5°	577.1
10°	562.4
12.5°	545.4
15°	528.9
17.5°	508.1
20°	485.4
22.5°	464.2
25°	443.4
27.5°	418.4
30°	391.5
32.5°	364.1
35°	338.1
37.5°	316.4
40°	295.1
42.5°	272.5
45°	248.9
47.5°	230.0
50°	213.9
52.5°	196.0
55°	171.9
57.5°	145.0
60°	117.1
62.5°	90.7
65°	68.9
67.5°	50.1
70°	35.4
72.5°	24.1
75°	15.1
77.5°	8.5
80°	2.8
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)