

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: P210520

Luminaire Tested: **PR8S10D010 - PR8M12MDMB - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210520  
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 - PR8M12MDMB - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1022.1 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

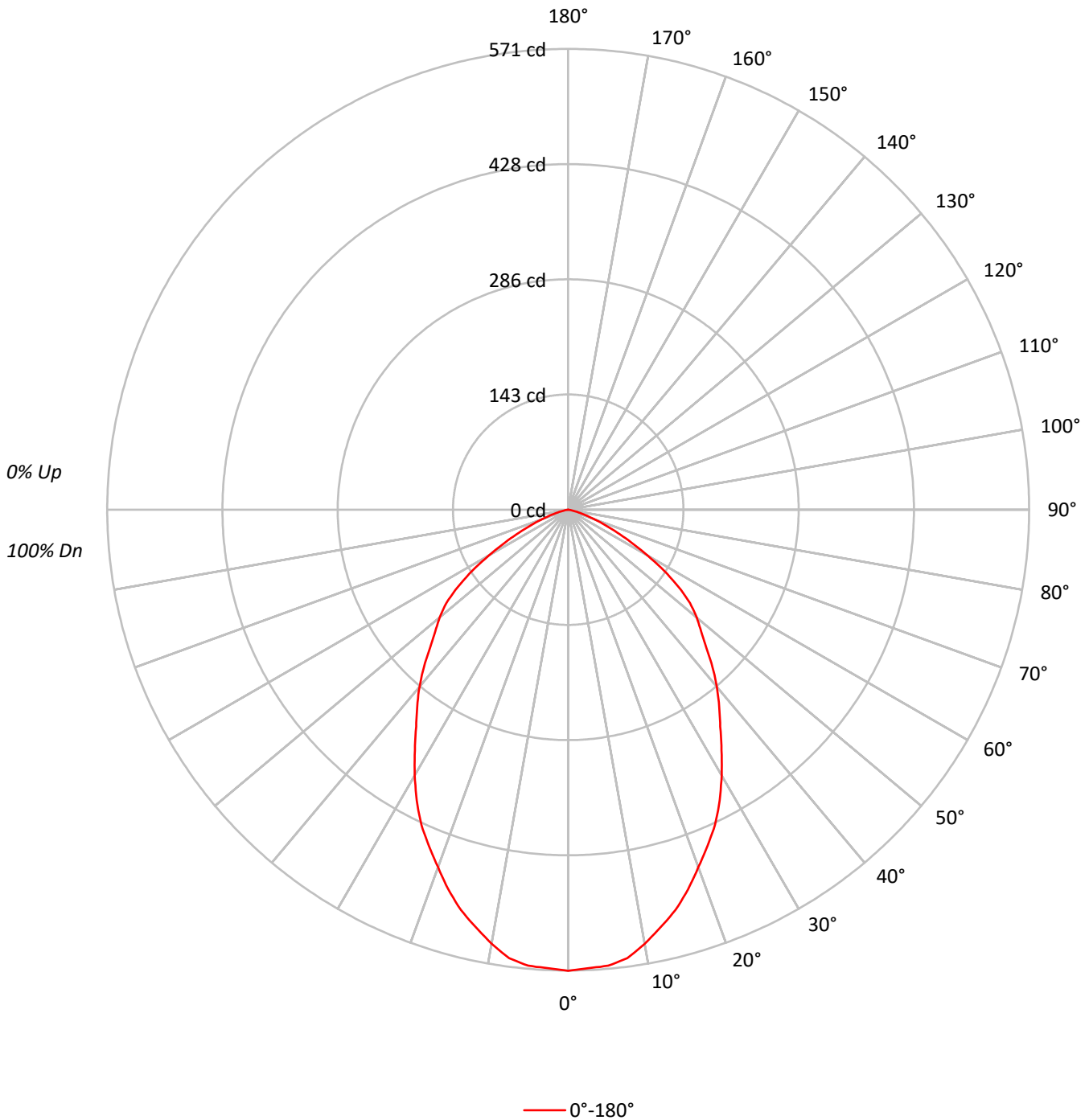
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	17620
5°	17557
10°	17099
15°	16396
20°	15469
25°	14651
30°	13534
35°	12359
40°	11537
45°	10540
50°	9964
55°	8973
60°	7012
65°	4881
70°	3101
75°	1751
80°	497
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	5.2
10°-20°	143.9	14.1
20°-30°	197.1	19.3
30°-40°	206.5	20.2
40°-50°	188.3	18.4
50°-60°	146.9	14.4
60°-70°	68.4	6.7
70°-80°	17.1	1.7
80°-90°	0.5	0.1
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°	394.4	38.6
0°-40°	601.0	58.8
0°-60°	936.1	91.6
0°-90°	1022.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	571	
5°	567	53
15°	514	144
25°	431	197
35°	328	207
45°	242	188
55°	167	147
65°	67	68
75°	15	17
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	571.4
2.5°	568.6
5°	567.2
7.5°	560.4
10°	546.1
12.5°	529.6
15°	513.6
17.5°	493.4
20°	471.4
22.5°	450.8
25°	430.6
27.5°	406.3
30°	380.1
32.5°	353.5
35°	328.3
37.5°	307.2
40°	286.6
42.5°	264.6
45°	241.7
47.5°	223.3
50°	207.7
52.5°	190.3
55°	166.9
57.5°	140.8
60°	113.7
62.5°	88.0
65°	66.9
67.5°	48.6
70°	34.4
72.5°	23.4
75°	14.7
77.5°	8.3
80°	2.8
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)