

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: P210546

Luminaire Tested: **PR8S20D010 - PR8M12MDMMS - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210546  
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: PR8S20D010 - PR8M12MDMMS - 4000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1890.4 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

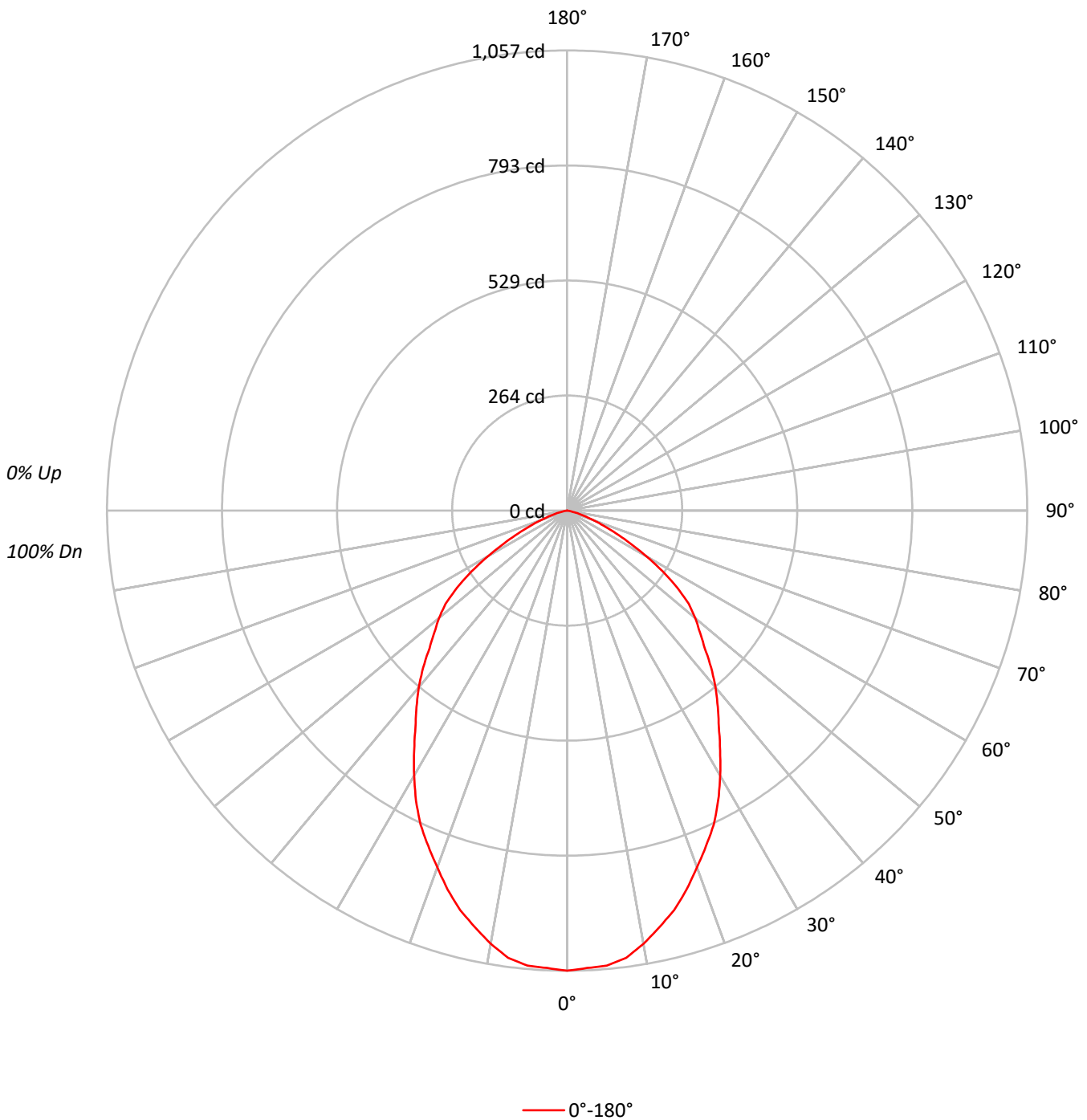
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	32588
5°	32477
10°	31631
15°	30325
20°	28612
25°	27097
30°	25035
35°	22861
40°	21339
45°	19493
50°	18431
55°	16596
60°	12970
65°	9033
70°	5734
75°	3229
80°	906
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	5.2
10°-20°	266.1	14.1
20°-30°	364.5	19.3
30°-40°	382.0	20.2
40°-50°	348.2	18.4
50°-60°	271.7	14.4
60°-70°	126.5	6.7
70°-80°	31.5	1.7
80°-90°	0.9	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°	729.5	38.6
0°-40°	1111.6	58.8
0°-60°	1731.5	91.6
0°-90°	1890.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1890.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1057	
5°	1049	99
15°	950	266
25°	796	364
35°	607	382
45°	447	348
55°	309	272
65°	124	126
75°	27	32
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1056.8
2.5°	1051.7
5°	1049.2
7.5°	1036.4
10°	1010.2
12.5°	979.6
15°	949.9
17.5°	912.6
20°	871.9
22.5°	833.7
25°	796.4
27.5°	751.5
30°	703.1
32.5°	653.9
35°	607.3
37.5°	568.3
40°	530.1
42.5°	489.4
45°	447.0
47.5°	413.1
50°	384.2
52.5°	352.0
55°	308.7
57.5°	260.4
60°	210.3
62.5°	162.8
65°	123.8
67.5°	89.9
70°	63.6
72.5°	43.3
75°	27.1
77.5°	15.3
80°	5.1
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)