

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: P210545

Luminaire Tested: **PR8S20D010 - PR8M12MDMMS - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210545  
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 - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2014.4 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

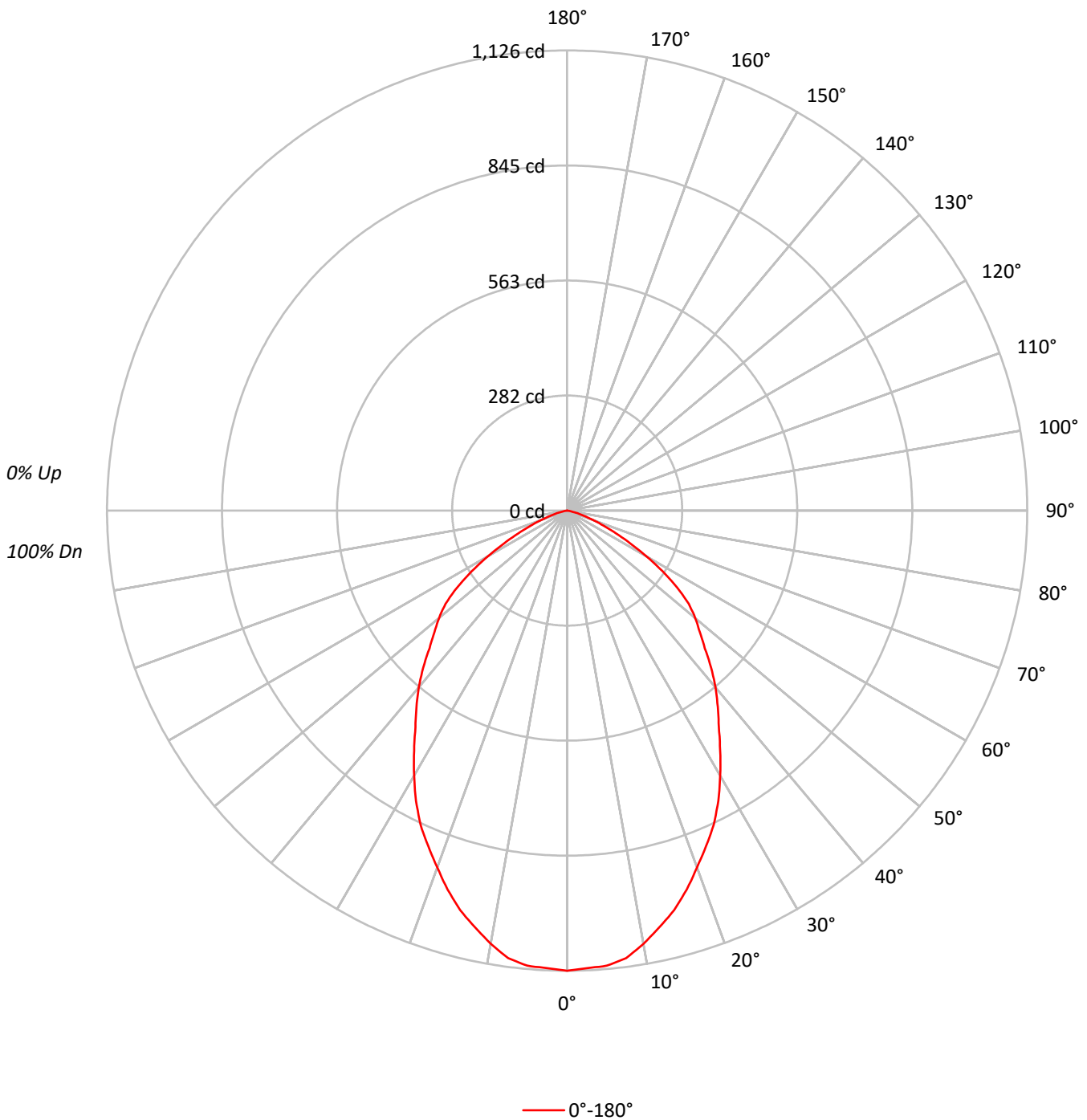
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	34725
5°	34604
10°	33704
15°	32314
20°	30489
25°	28873
30°	26677
35°	24360
40°	22735
45°	20771
50°	19640
55°	17688
60°	13821
65°	9624
70°	6113
75°	3443
80°	959
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	5.2
10°-20°	283.6	14.1
20°-30°	388.3	19.3
30°-40°	407.1	20.2
40°-50°	371.0	18.4
50°-60°	289.6	14.4
60°-70°	134.8	6.7
70°-80°	33.6	1.7
80°-90°	1.0	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°	777.3	38.6
0°-40°	1184.4	58.8
0°-60°	1845.0	91.6
0°-90°	2014.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1126	
5°	1118	105
15°	1012	284
25°	849	388
35°	647	407
45°	476	371
55°	329	290
65°	132	135
75°	29	34
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1126.1
2.5°	1120.7
5°	1117.9
7.5°	1104.4
10°	1076.4
12.5°	1043.8
15°	1012.2
17.5°	972.4
20°	929.1
22.5°	888.4
25°	848.6
27.5°	800.7
30°	749.2
32.5°	696.8
35°	647.1
37.5°	605.5
40°	564.8
42.5°	521.5
45°	476.3
47.5°	440.1
50°	409.4
52.5°	375.1
55°	329.0
57.5°	277.5
60°	224.1
62.5°	173.5
65°	131.9
67.5°	95.8
70°	67.8
72.5°	46.1
75°	28.9
77.5°	16.3
80°	5.4
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)