

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: P210589

Luminaire Tested: **PR8S20D010 - PR8M12WDMMS - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210589  
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: PR8S20D010 - PR8M12WDMMS - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1770.2 lumens  
Efficiency: N/A  
Efficacy: 80.5 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

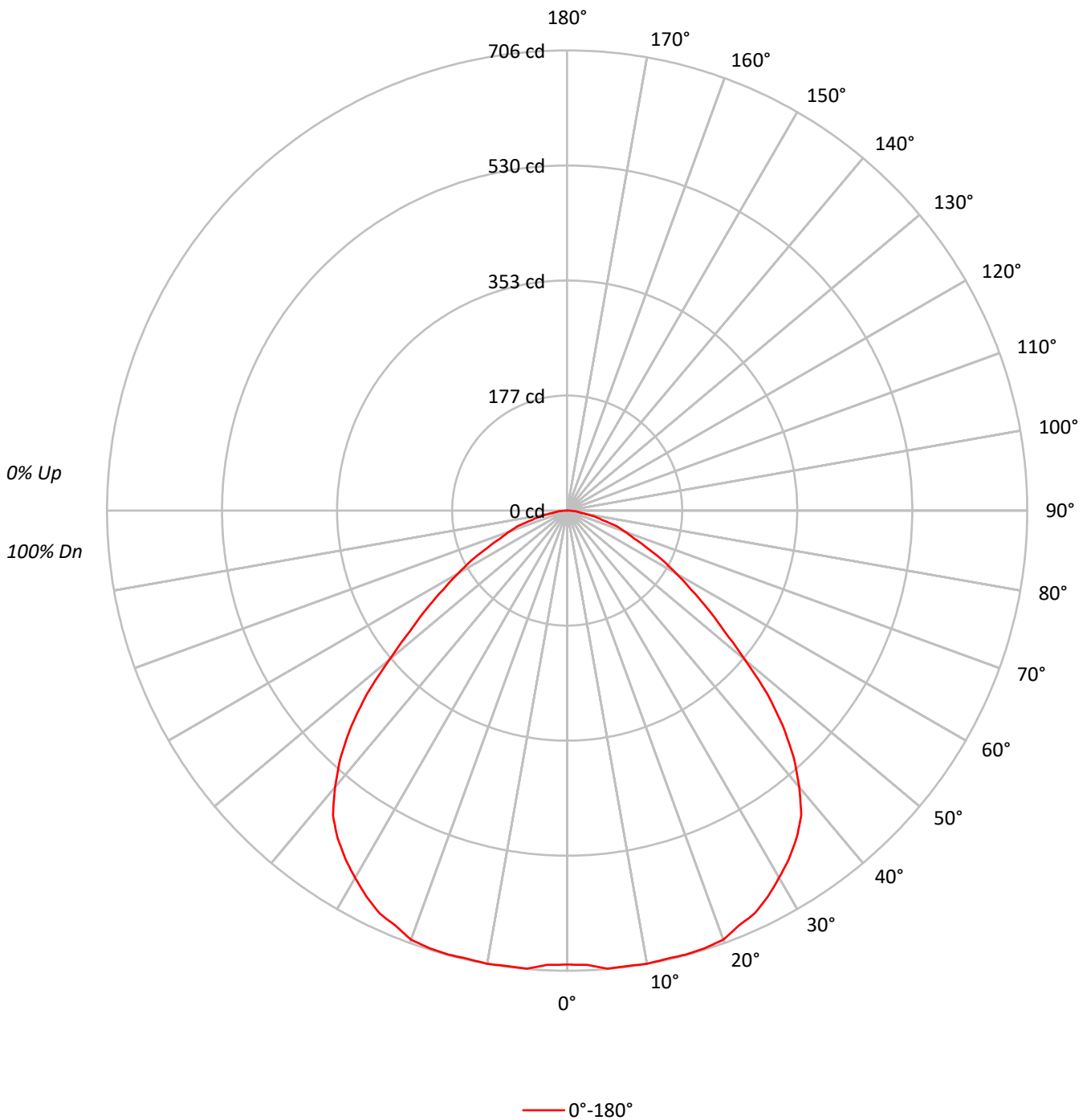
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	21477
5°	21838
10°	22103
15°	22510
20°	22987
25°	23194
30°	23159
35°	23102
40°	22301
45°	20422
50°	17059
55°	14182
60°	11921
65°	9850
70°	8466
75°	6648
80°	4599
85°	4847



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.2	3.8
10°-20°	199.5	11.3
20°-30°	313.3	17.7
30°-40°	382.0	21.6
40°-50°	357.0	20.2
50°-60°	238.1	13.5
60°-70°	137.0	7.7
70°-80°	63.2	3.6
80°-90°	12.9	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°	580.1	32.8
0°-40°	962.1	54.3
0°-60°	1557.2	88.0
0°-90°	1770.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	696	
5°	706	67
15°	705	200
25°	682	313
35°	614	382
45°	468	357
55°	264	238
65°	135	137
75°	56	63
85°	14	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	696.5
2.5°	697.6
5°	705.5
7.5°	704.8
10°	705.9
12.5°	704.4
15°	705.1
17.5°	703.7
20°	700.5
22.5°	688.9
25°	681.7
27.5°	667.3
30°	650.4
32.5°	633.5
35°	613.7
37.5°	590.0
40°	554.0
42.5°	514.7
45°	468.3
47.5°	416.8
50°	355.6
52.5°	303.8
55°	263.8
57.5°	225.7
60°	193.3
62.5°	165.2
65°	135.0
67.5°	110.9
70°	93.9
72.5°	79.9
75°	55.8
77.5°	44.3
80°	25.9
82.5°	16.6
85°	13.7
87.5°	4.0
90°	0.0

(END OF REPORT)