

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: P210541

Luminaire Tested: **PR8S15D010 - PR8M12MDMMS - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210541  
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: PR8S15D010 - 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: 1380.9 lumens  
Efficiency: N/A  
Efficacy: 92.1 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

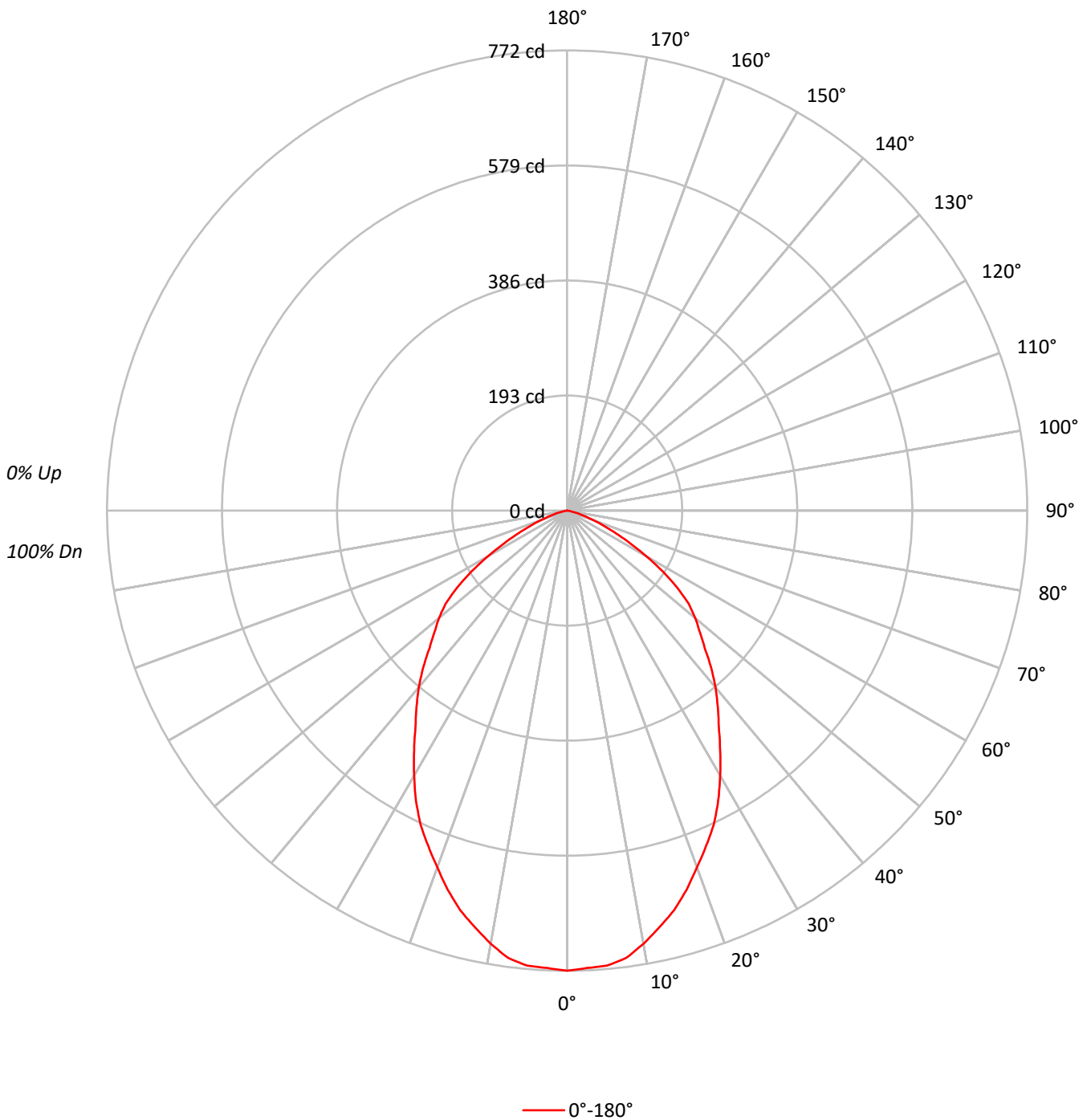
Input Watts (W): 15  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	23803
5°	23723
10°	23105
15°	22152
20°	20900
25°	19792
30°	18288
35°	16699
40°	15586
45°	14238
50°	13461
55°	12123
60°	9473
65°	6603
70°	4192
75°	2359
80°	657
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	5.2
10°-20°	194.4	14.1
20°-30°	266.2	19.3
30°-40°	279.1	20.2
40°-50°	254.3	18.4
50°-60°	198.5	14.4
60°-70°	92.4	6.7
70°-80°	23.0	1.7
80°-90°	0.7	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°	532.9	38.6
0°-40°	812.0	58.8
0°-60°	1264.8	91.6
0°-90°	1380.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	772	
5°	766	72
15°	694	194
25°	582	266
35°	444	279
45°	326	254
55°	226	198
65°	90	92
75°	20	23
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	771.9
2.5°	768.2
5°	766.4
7.5°	757.1
10°	737.9
12.5°	715.6
15°	693.9
17.5°	666.6
20°	636.9
22.5°	609.0
25°	581.7
27.5°	548.9
30°	513.6
32.5°	477.7
35°	443.6
37.5°	415.1
40°	387.2
42.5°	357.5
45°	326.5
47.5°	301.7
50°	280.6
52.5°	257.1
55°	225.5
57.5°	190.2
60°	153.6
62.5°	119.0
65°	90.5
67.5°	65.7
70°	46.5
72.5°	31.6
75°	19.8
77.5°	11.2
80°	3.7
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)