

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: P210134

Luminaire Tested: **PR810D010 - PR8M12MDMMS - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210134  
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: PR810D010 - PR8M12MDMMS - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 1137.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 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

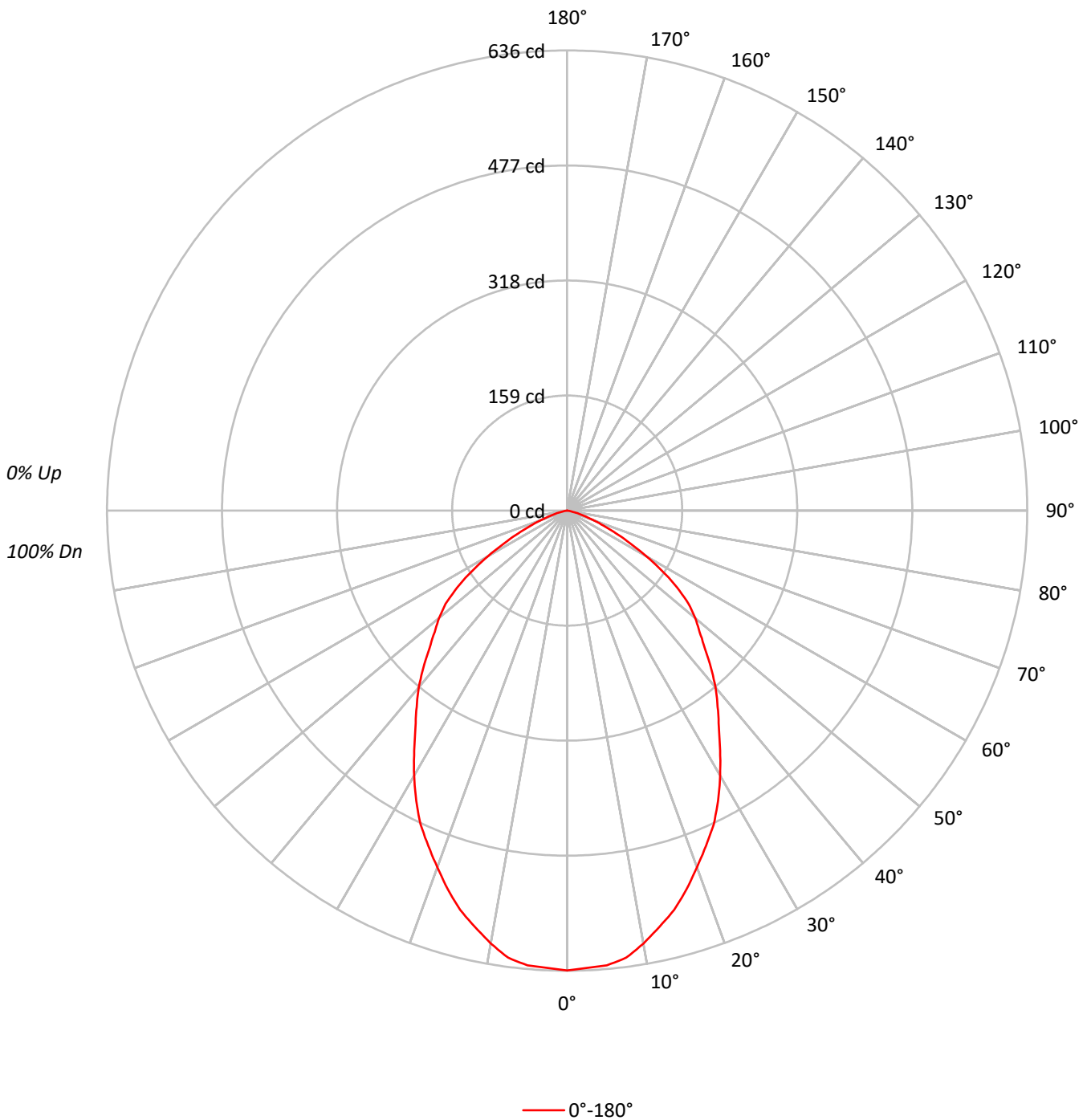
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	19600
5°	19532
10°	19025
15°	18238
20°	17208
25°	16298
30°	15058
35°	13751
40°	12833
45°	11722
50°	11087
55°	9984
60°	7802
65°	5436
70°	3453
75°	1942
80°	550
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.5	5.2
10°-20°	160.1	14.1
20°-30°	219.2	19.3
30°-40°	229.8	20.2
40°-50°	209.4	18.4
50°-60°	163.4	14.4
60°-70°	76.1	6.7
70°-80°	19.0	1.7
80°-90°	0.6	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°	438.8	38.6
0°-40°	668.6	58.8
0°-60°	1041.4	91.6
0°-90°	1137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	636	
5°	631	60
15°	571	160
25°	479	219
35°	365	230
45°	269	209
55°	186	163
65°	74	76
75°	16	19
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	635.6
2.5°	632.6
5°	631.0
7.5°	623.4
10°	607.6
12.5°	589.2
15°	571.3
17.5°	548.9
20°	524.4
22.5°	501.5
25°	479.0
27.5°	452.0
30°	422.9
32.5°	393.3
35°	365.3
37.5°	341.8
40°	318.8
42.5°	294.3
45°	268.8
47.5°	248.4
50°	231.1
52.5°	211.7
55°	185.7
57.5°	156.6
60°	126.5
62.5°	97.9
65°	74.5
67.5°	54.1
70°	38.3
72.5°	26.0
75°	16.3
77.5°	9.2
80°	3.1
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)