

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P434723

Luminaire Tested: **HCMR1R25927ED010MMS**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-933-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/24/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCMR1R25927ED010MMS  
Description: HALO COMMERCIAL 4INCH ADJUSTABLE MULTIPLE, 25 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1139.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.39  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

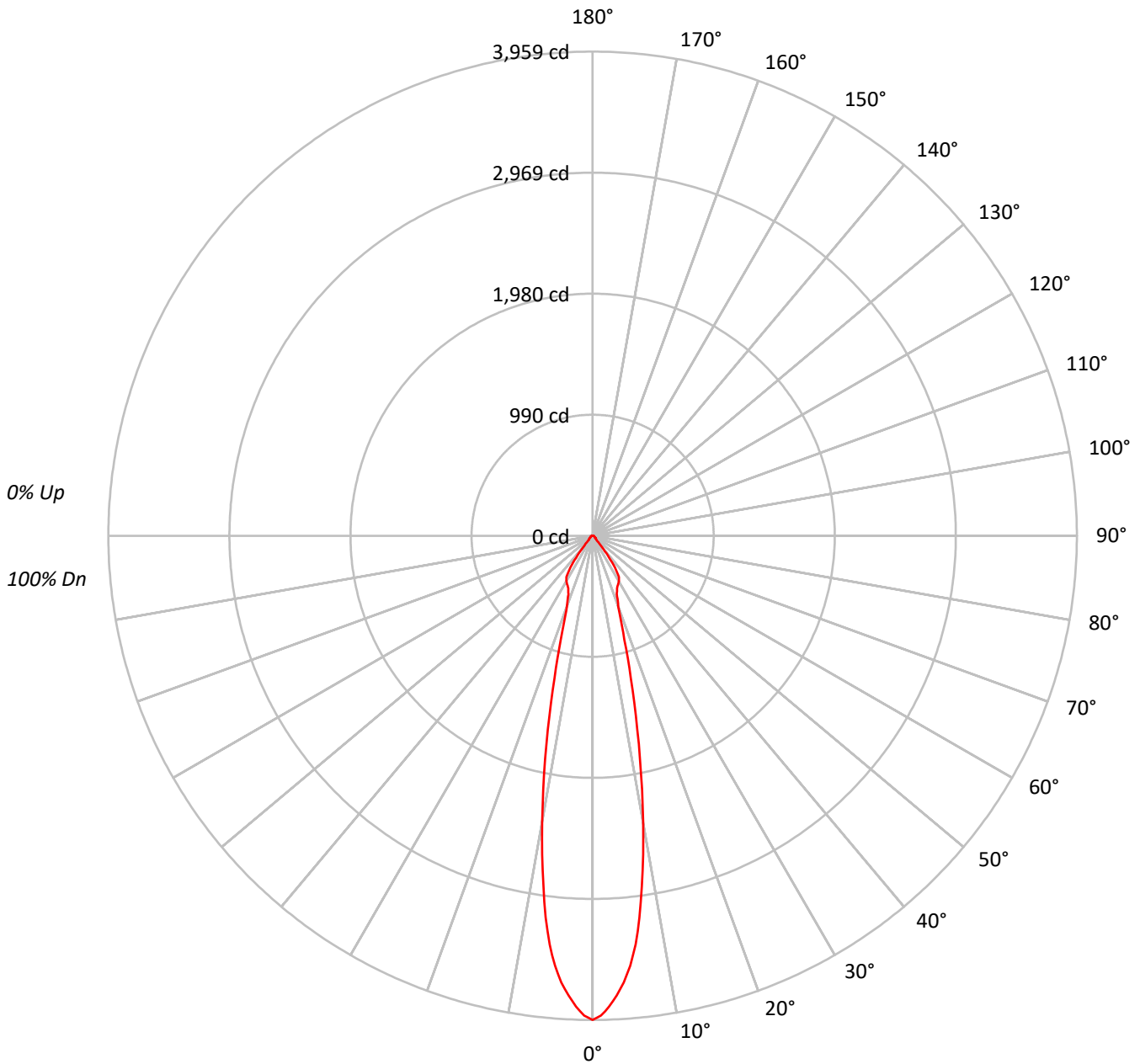
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88			
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83			
4	100	93	88	84	98	92	87	83	89	85	82	88	84	81	86	83	80	79			
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75			
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68			
8	85	76	71	68	84	76	71	67	75	70	67	74	70	67	73	69	67	65			
9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63			
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1953339
5°	1748283
10°	1190204
15°	615137
20°	320907
25°	257548
30°	244461
35°	190389
40°	65694
45°	28608
50°	24562
55°	21505
60°	18748
65°	17512
70°	18753
75°	22875
80°	28413
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.9	26.2
10°-20°	343.6	30.2
20°-30°	224.4	19.7
30°-40°	181.6	15.9
40°-50°	36.8	3.2
50°-60°	22.2	1.9
60°-70°	15.3	1.3
70°-80°	12.8	1.1
80°-90°	3.3	0.3
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°	866.9	76.1
0°-40°	1048.5	92.1
0°-60°	1107.5	97.2
0°-90°	1139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3959	
5°	3530	299
15°	1204	344
25°	473	224
35°	316	182
45°	41	37
55°	25	22
65°	15	15
75°	12	13
85°	1	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3959.1
1°	3924.1
2°	3853.1
3°	3764.0
4°	3661.0
5°	3530.0
6°	3359.9
7°	3144.9
8°	2893.8
9°	2637.7
10°	2375.7
11°	2114.6
12°	1864.5
13°	1625.5
14°	1406.4
15°	1204.3
16°	1040.3
17°	889.2
18°	771.2
19°	679.2
20°	611.2
22.5°	516.1
25°	473.1
26°	462.1
27°	454.1
28°	446.1
29°	437.1
30°	429.1
32.5°	399.1
35°	316.1
37.5°	203.1
40°	102.0
42.5°	49.0
45°	41.0
47.5°	36.0
50°	32.0
52.5°	28.0
55°	25.0
57.5°	21.0
60°	19.0
62.5°	17.0
65°	15.0
67.5°	14.0



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	12.0
77.5°	12.0
80°	10.0
82.5°	6.0
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







70°		13.0
72.5°		13.0



(END OF REPORT)