

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: P434729

Luminaire Tested: **HCMR1R25935ED010MMS**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434729  
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: HCMR1R25935ED010MMS  
Description: HALO COMMERCIAL 4INCH ADJUSTABLE MULTIPLE, 25 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1275.9 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

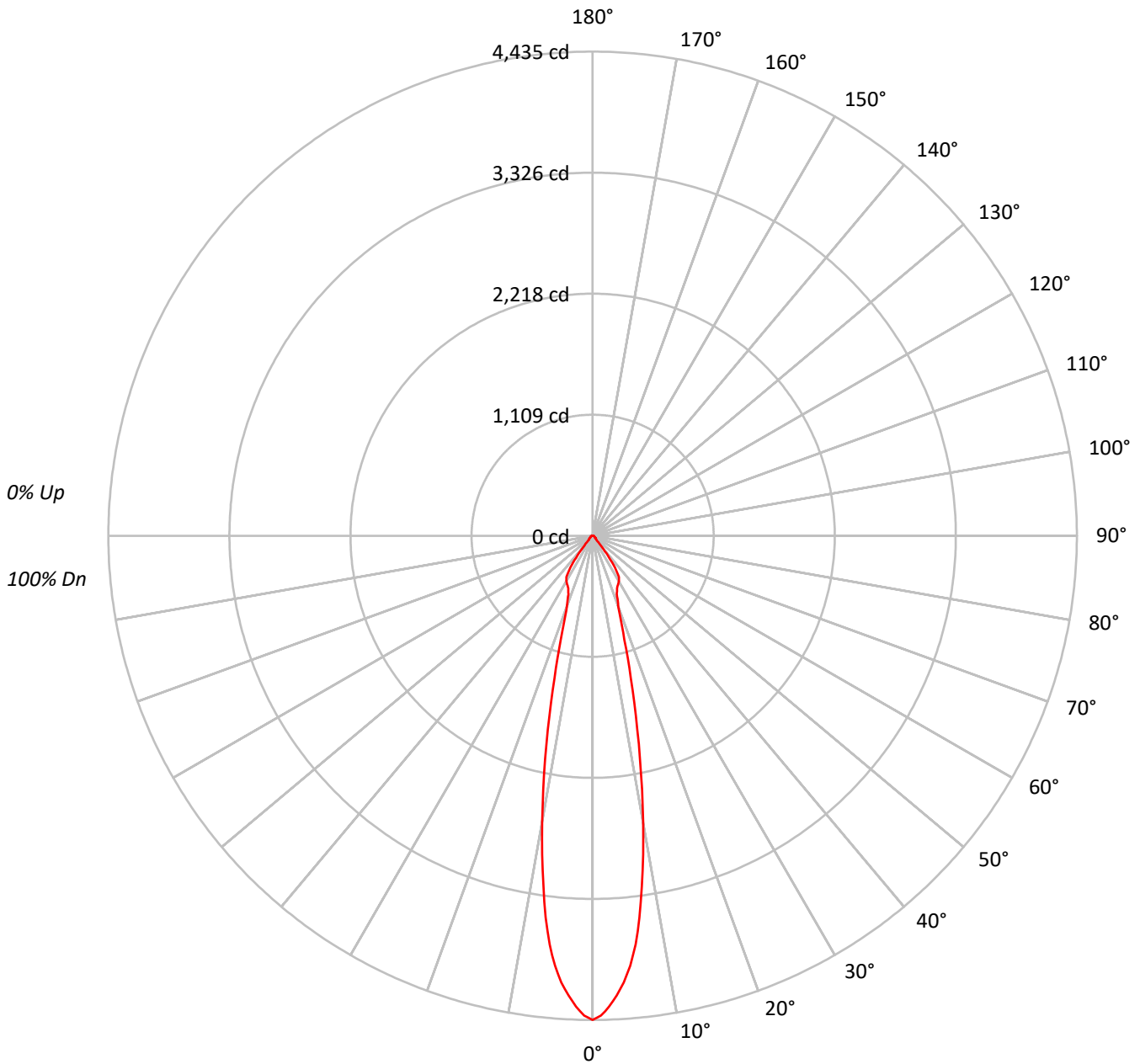
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2188138
5°	1958423
10°	1333237
15°	689099
20°	359445
25°	288524
30°	273857
35°	213276
40°	73616
45°	32026
50°	27555
55°	24085
60°	21018
65°	19613
70°	21061
75°	25544
80°	31822
85°	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.9	26.2
10°-20°	384.9	30.2
20°-30°	251.4	19.7
30°-40°	203.4	15.9
40°-50°	41.2	3.2
50°-60°	24.9	1.9
60°-70°	17.2	1.3
70°-80°	14.3	1.1
80°-90°	3.6	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°	971.1	76.1
0°-40°	1174.6	92.1
0°-60°	1240.7	97.2
0°-90°	1275.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4435	
5°	3954	335
15°	1349	385
25°	530	251
35°	354	203
45°	46	41
55°	28	25
65°	17	17
75°	13	14
85°	1	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4435.0
1°	4395.8
2°	4316.2
3°	4216.5
4°	4101.1
5°	3954.3
6°	3763.8
7°	3522.9
8°	3241.7
9°	2954.8
10°	2661.2
11°	2368.8
12°	2088.7
13°	1820.8
14°	1575.5
15°	1349.1
16°	1165.3
17°	996.1
18°	863.9
19°	760.8
20°	684.6
22.5°	578.2
25°	530.0
26°	517.7
27°	508.7
28°	499.8
29°	489.7
30°	480.7
32.5°	447.1
35°	354.1
37.5°	227.5
40°	114.3
42.5°	54.9
45°	45.9
47.5°	40.3
50°	35.9
52.5°	31.4
55°	28.0
57.5°	23.5
60°	21.3
62.5°	19.0
65°	16.8
67.5°	15.7



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	13.4
77.5°	13.4
80°	11.2
82.5°	6.7
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







70°		14.6
72.5°		14.6



(END OF REPORT)