

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: P434769

Luminaire Tested: **HCMR2R25940ED010MW**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434769  
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: HCMR2R25940ED010MW  
Description: HALO COMMERCIAL 4INCH ADJUSTABLE MULTIPLE, 25 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2448.8 lumens  
Efficiency: N/A  
Efficacy: 86.2 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

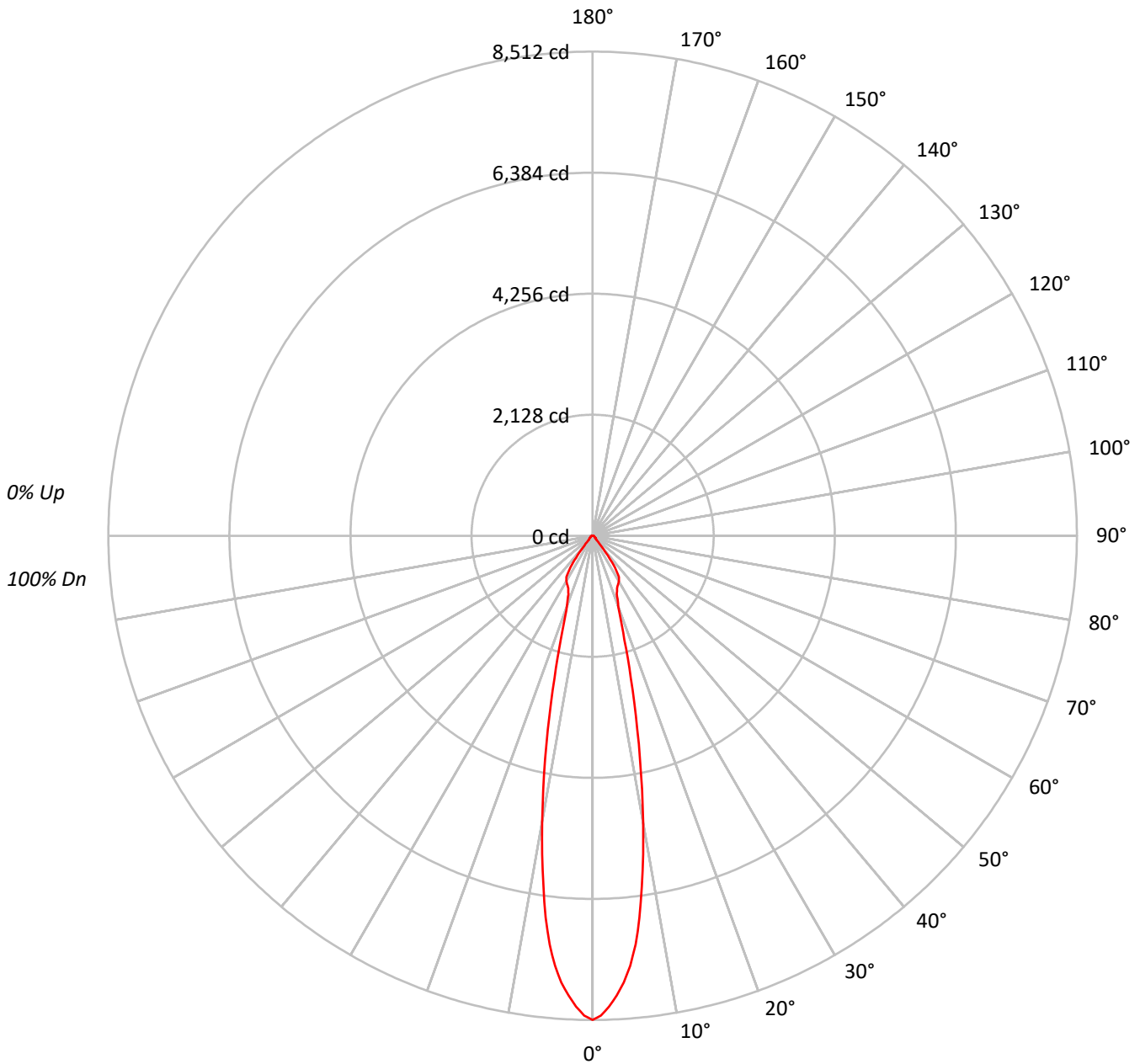
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	75	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°	4199499
5°	3758609
10°	2558760
15°	1322522
20°	689907
25°	553748
30°	525610
35°	409327
40°	141307
45°	61541
50°	52808
55°	46278
60°	40358
65°	37708
70°	40391
75°	49182
80°	61087
85°	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.7	26.2
10°-20°	738.7	30.2
20°-30°	482.4	19.7
30°-40°	390.4	15.9
40°-50°	79.2	3.2
50°-60°	47.8	2.0
60°-70°	33.0	1.3
70°-80°	27.6	1.1
80°-90°	7.0	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°	1863.8	76.1
0°-40°	2254.3	92.1
0°-60°	2381.2	97.2
0°-90°	2448.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8512	
5°	7589	643
15°	2589	739
25°	1017	482
35°	680	390
45°	88	79
55°	54	48
65°	32	33
75°	26	28
85°	2	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8511.7
1°	8436.4
2°	8283.7
3°	8092.3
4°	7870.8
5°	7589.1
6°	7223.5
7°	6761.2
8°	6221.4
9°	5670.9
10°	5107.4
11°	4546.2
12°	4008.5
13°	3494.6
14°	3023.6
15°	2589.2
16°	2236.5
17°	1911.8
18°	1658.0
19°	1460.2
20°	1314.0
22.5°	1109.7
25°	1017.2
26°	993.5
27°	976.3
28°	959.1
29°	939.8
30°	922.6
32.5°	858.0
35°	679.6
37.5°	436.6
40°	219.4
42.5°	105.4
45°	88.2
47.5°	77.4
50°	68.8
52.5°	60.2
55°	53.8
57.5°	45.2
60°	40.9
62.5°	36.6
65°	32.3
67.5°	30.1



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	25.8
77.5°	25.8
80°	21.5
82.5°	12.9
85°	2.2
87.5°	0.0
90°	0.0



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— 0°-180°







70°		28.0
72.5°		28.0



(END OF REPORT)