

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: P434760

Luminaire Tested: **HCMR2R25927ED010MW**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434760  
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: HCMR2R25927ED010MW  
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: 2123.2 lumens  
Efficiency: N/A  
Efficacy: 74.8 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

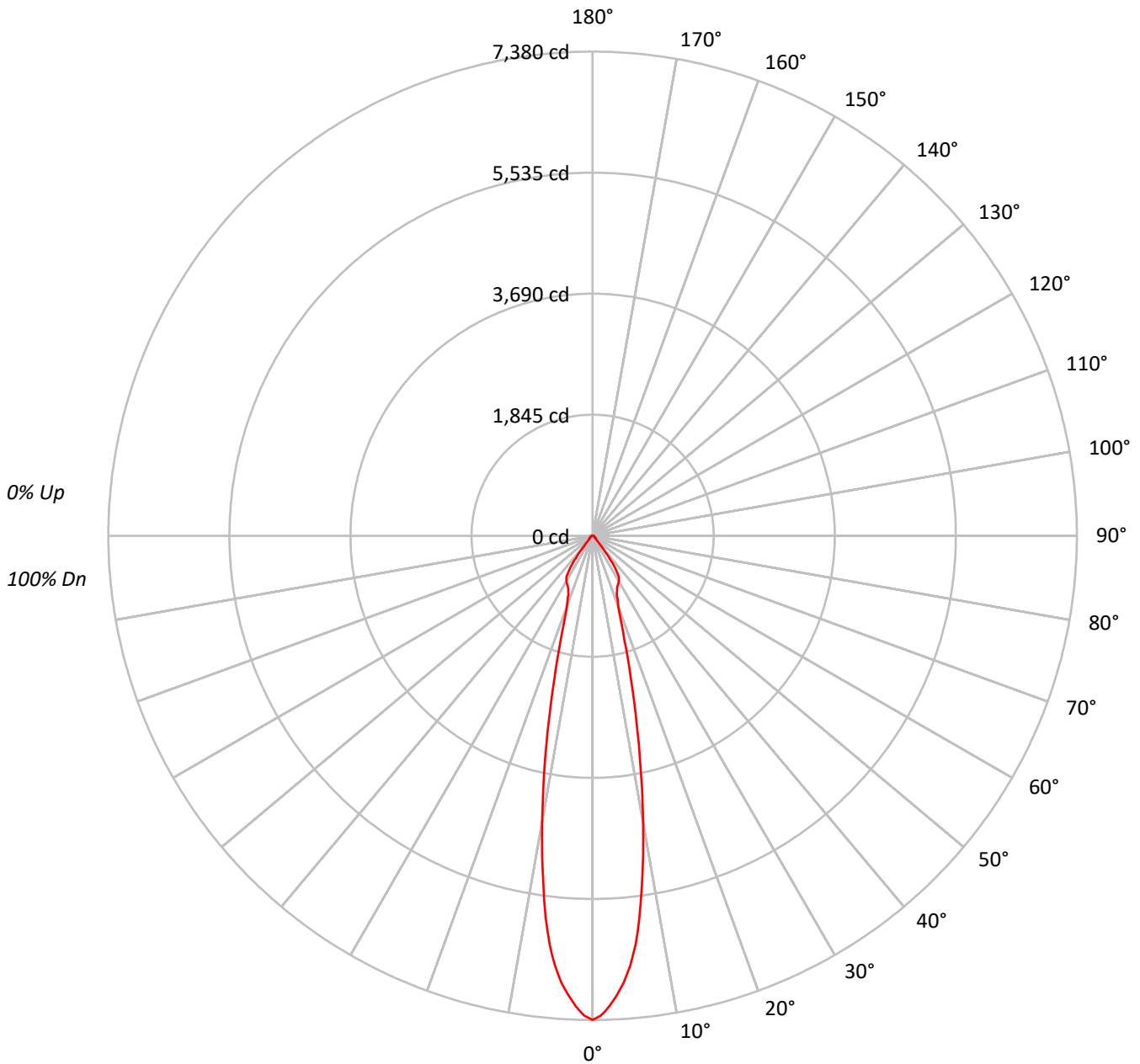
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	3641240
5°	3258987
10°	2218637
15°	1146710
20°	598182
25°	480147
30°	455708
35°	354878
40°	122500
45°	53308
50°	45823
55°	40084
60°	34931
65°	32688
70°	34910
75°	42700
80°	52847
85°	10756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.3	26.2
10°-20°	640.5	30.2
20°-30°	418.3	19.7
30°-40°	338.5	15.9
40°-50°	68.6	3.2
50°-60°	41.4	2.0
60°-70°	28.6	1.3
70°-80°	23.9	1.1
80°-90°	6.1	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°	1616.1	76.1
0°-40°	1954.6	92.1
0°-60°	2064.6	97.2
0°-90°	2123.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7380	
5°	6580	557
15°	2245	641
25°	882	418
35°	589	339
45°	76	69
55°	47	41
65°	28	29
75°	22	24
85°	2	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7380.2
1°	7314.9
2°	7182.6
3°	7016.6
4°	6824.5
5°	6580.3
6°	6263.3
7°	5862.4
8°	5394.4
9°	4917.0
10°	4428.5
11°	3941.8
12°	3475.7
13°	3030.0
14°	2621.7
15°	2245.0
16°	1939.2
17°	1657.7
18°	1437.6
19°	1266.1
20°	1139.3
22.5°	962.1
25°	882.0
26°	861.5
27°	846.5
28°	831.6
29°	814.8
30°	799.9
32.5°	744.0
35°	589.2
37.5°	378.5
40°	190.2
42.5°	91.4
45°	76.4
47.5°	67.1
50°	59.7
52.5°	52.2
55°	46.6
57.5°	39.2
60°	35.4
62.5°	31.7
65°	28.0
67.5°	26.1



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	22.4
77.5°	22.4
80°	18.6
82.5°	11.2
85°	1.9
87.5°	0.0
90°	0.0



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— 0°-180°







70°		24.2
72.5°		24.2



(END OF REPORT)