

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: P434619

Luminaire Tested: **HCM2R25930ED010MW**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434619  
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: HCM2R25930ED010MW  
Description: HALO COMMERCIAL 4INCH ADJUSTABLE MULTIPLE, 25 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2261.9 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

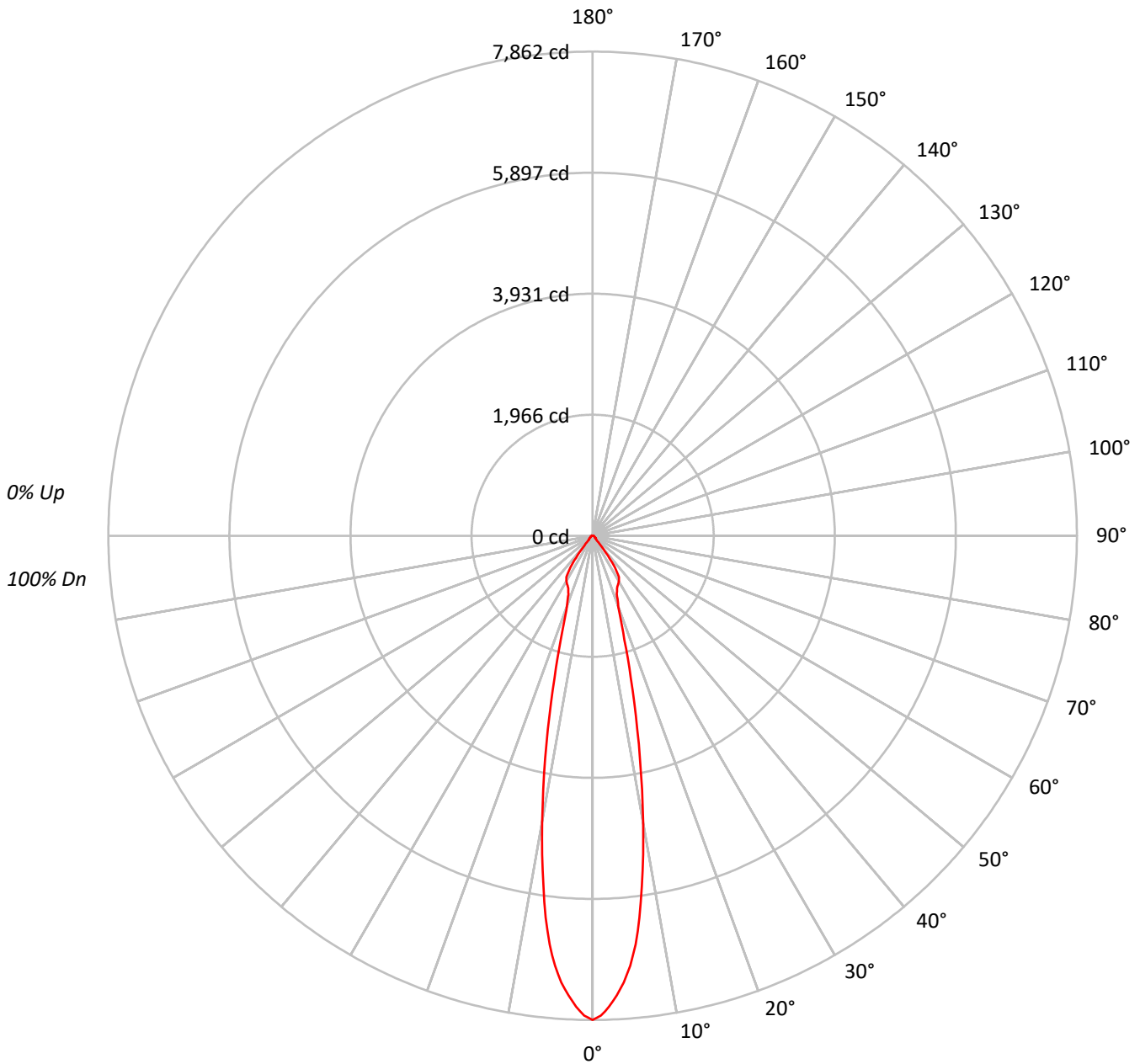
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3879147
5°	3471901
10°	2363574
15°	1221642
20°	637245
25°	511503
30°	485503
35°	378067
40°	130487
45°	56796
50°	48817
55°	42751
60°	37201
65°	34790
70°	37218
75°	45369
80°	56541
85°	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.7	26.2
10°-20°	682.3	30.2
20°-30°	445.6	19.7
30°-40°	360.6	15.9
40°-50°	73.1	3.2
50°-60°	44.1	1.9
60°-70°	30.5	1.3
70°-80°	25.4	1.1
80°-90°	6.5	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°	1721.6	76.1
0°-40°	2082.3	92.1
0°-60°	2199.5	97.2
0°-90°	2261.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7862	
5°	7010	594
15°	2392	682
25°	940	446
35°	628	361
45°	81	73
55°	50	44
65°	30	30
75°	24	25
85°	2	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7862.4
1°	7792.8
2°	7651.8
3°	7475.0
4°	7270.4
5°	7010.2
6°	6672.5
7°	6245.4
8°	5746.8
9°	5238.3
10°	4717.8
11°	4199.4
12°	3702.7
13°	3228.0
14°	2792.9
15°	2391.7
16°	2065.9
17°	1766.0
18°	1531.6
19°	1348.8
20°	1213.7
22.5°	1025.0
25°	939.6
26°	917.7
27°	901.8
28°	886.0
29°	868.1
30°	852.2
32.5°	792.6
35°	627.7
37.5°	403.2
40°	202.6
42.5°	97.3
45°	81.4
47.5°	71.5
50°	63.6
52.5°	55.6
55°	49.7
57.5°	41.7
60°	37.7
62.5°	33.8
65°	29.8
67.5°	27.8



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	23.8
77.5°	23.8
80°	19.9
82.5°	11.9
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







70°	25.8
72.5°	25.8



(END OF REPORT)