

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: P434620

Luminaire Tested: **HCM2R25935ED010MB**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434620  
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: HCM2R25935ED010MB  
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: 2378.5 lumens  
Efficiency: N/A  
Efficacy: 83.7 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

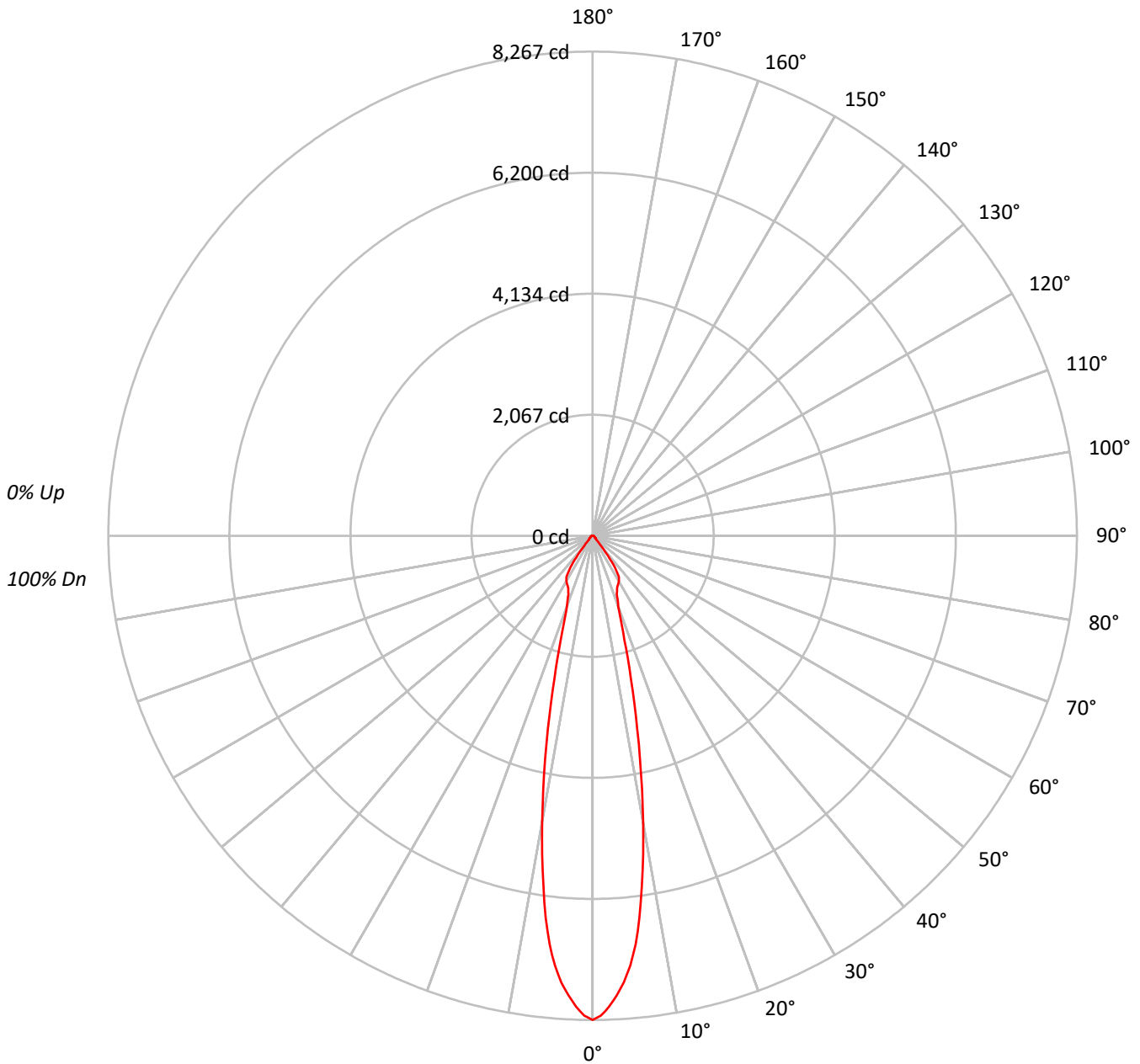
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P434620

CATALOG NUMBER: HCM2R25935ED010MB

### 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°	4078966
5°	3650741
10°	2485315
15°	1284571
20°	670061
25°	537851
30°	510513
35°	397582
40°	137249
45°	59727
50°	51273
55°	44901
60°	39174
65°	36541
70°	39237
75°	47847
80°	59382
85°	11888



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.2	26.2
10°-20°	717.5	30.2
20°-30°	468.6	19.7
30°-40°	379.2	15.9
40°-50°	76.9	3.2
50°-60°	46.4	1.9
60°-70°	32.0	1.3
70°-80°	26.8	1.1
80°-90°	6.8	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°	1810.3	76.1
0°-40°	2189.6	92.1
0°-60°	2312.8	97.2
0°-90°	2378.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8267	
5°	7371	624
15°	2515	717
25°	988	469
35°	660	379
45°	86	77
55°	52	46
65°	31	32
75°	25	27
85°	2	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8267.4
1°	8194.3
2°	8046.0
3°	7860.1
4°	7644.9
5°	7371.3
6°	7016.2
7°	6567.1
8°	6042.8
9°	5508.1
10°	4960.8
11°	4415.7
12°	3893.5
13°	3394.3
14°	2936.8
15°	2514.9
16°	2172.3
17°	1856.9
18°	1610.4
19°	1418.3
20°	1276.2
22.5°	1077.8
25°	988.0
26°	965.0
27°	948.3
28°	931.6
29°	912.8
30°	896.1
32.5°	833.4
35°	660.1
37.5°	424.0
40°	213.1
42.5°	102.4
45°	85.6
47.5°	75.2
50°	66.8
52.5°	58.5
55°	52.2
57.5°	43.9
60°	39.7
62.5°	35.5
65°	31.3
67.5°	29.2



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	25.1
77.5°	25.1
80°	20.9
82.5°	12.5
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







70°		27.2
72.5°		27.2



(END OF REPORT)