

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: P434587

Luminaire Tested: **HCM1R25940ED010MB**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434587  
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: HCM1R25940ED010MB  
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: 1313.6 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

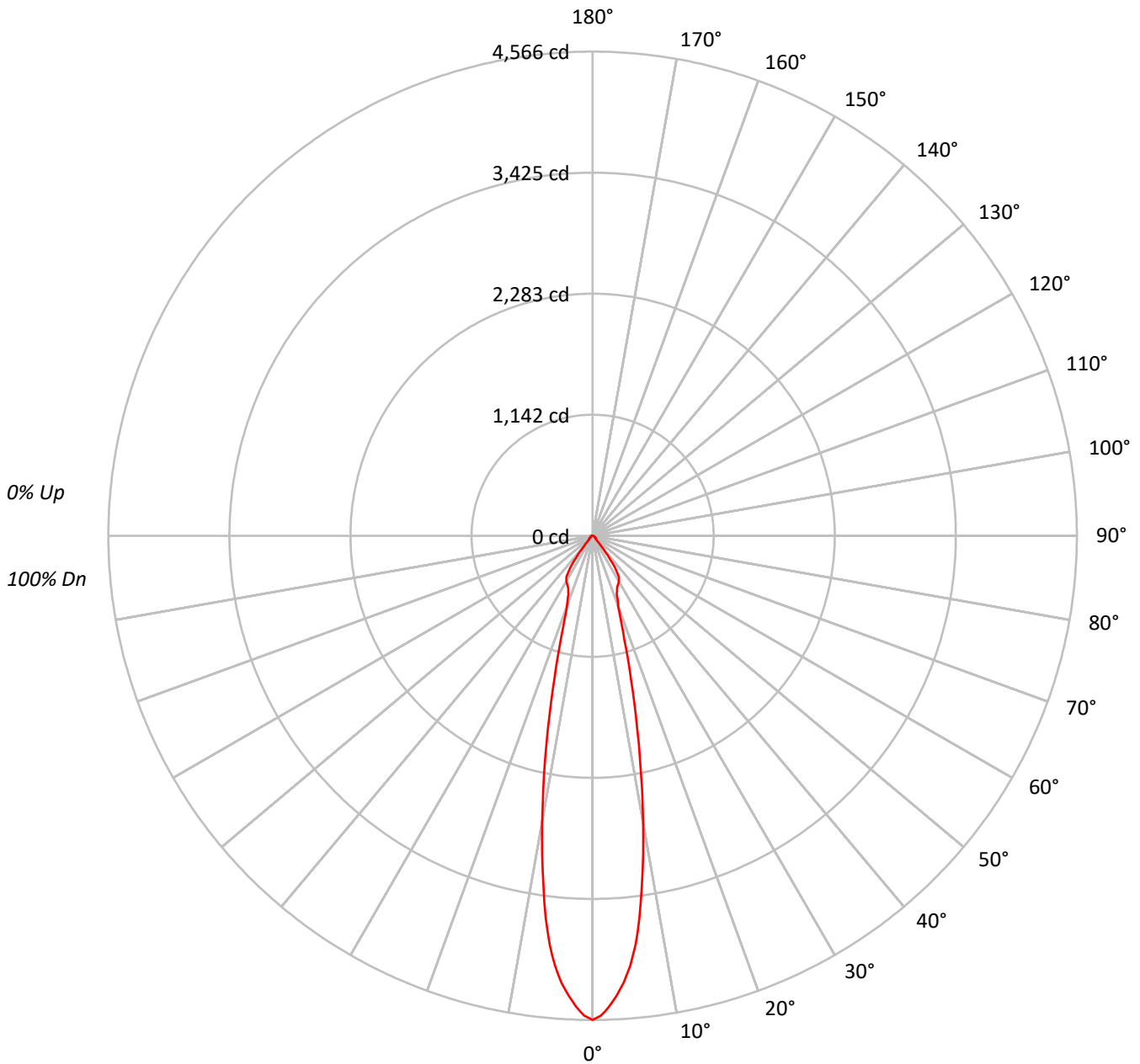
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2252820
5°	2016320
10°	1372664
15°	709479
20°	370103
25°	297070
30°	281947
35°	219540
40°	75806
45°	33003
50°	28323
55°	24773
60°	21610
65°	20197
70°	21638
75°	26307
80°	32674
85°	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.8	26.2
10°-20°	396.3	30.2
20°-30°	258.8	19.7
30°-40°	209.4	15.9
40°-50°	42.5	3.2
50°-60°	25.6	1.9
60°-70°	17.7	1.3
70°-80°	14.8	1.1
80°-90°	3.8	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°	999.9	76.1
0°-40°	1209.3	92.1
0°-60°	1277.3	97.2
0°-90°	1313.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4566	
5°	4071	345
15°	1389	396
25°	546	259
35°	364	209
45°	47	42
55°	29	26
65°	17	18
75°	14	15
85°	1	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4566.1
1°	4525.7
2°	4443.8
3°	4341.1
4°	4222.3
5°	4071.2
6°	3875.0
7°	3627.0
8°	3337.5
9°	3042.1
10°	2739.9
11°	2438.8
12°	2150.4
13°	1874.7
14°	1622.0
15°	1389.0
16°	1199.8
17°	1025.6
18°	889.4
19°	783.3
20°	704.9
22.5°	595.3
25°	545.7
26°	533.0
27°	523.7
28°	514.5
29°	504.1
30°	494.9
32.5°	460.3
35°	364.5
37.5°	234.2
40°	117.7
42.5°	56.5
45°	47.3
47.5°	41.5
50°	36.9
52.5°	32.3
55°	28.8
57.5°	24.2
60°	21.9
62.5°	19.6
65°	17.3
67.5°	16.2



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	13.8
77.5°	13.8
80°	11.5
82.5°	6.9
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







70°		15.0
72.5°		15.0



(END OF REPORT)