

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: P434582

Luminaire Tested: **HCM1R25930ED010MMS**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434582  
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: HCM1R25930ED010MMS  
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: 1213.4 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

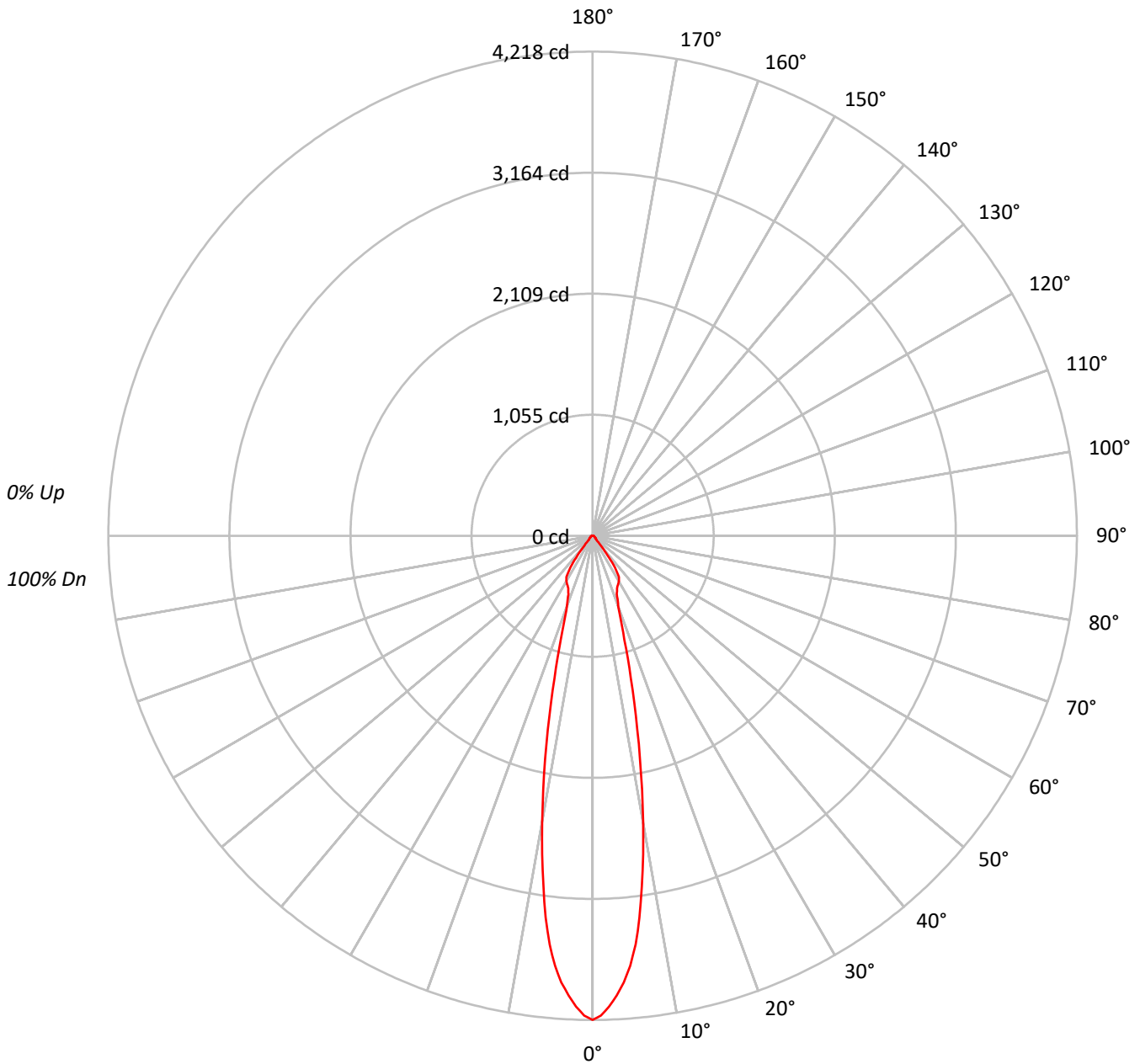
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2080976
5°	1862490
10°	1267957
15°	655336
20°	341856
25°	274370
30°	260469
35°	202796
40°	70009
45°	30491
50°	26174
55°	22881
60°	19933
65°	18679
70°	20051
75°	24400
80°	30401
85°	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.5	26.2
10°-20°	366.0	30.2
20°-30°	239.1	19.7
30°-40°	193.5	15.9
40°-50°	39.2	3.2
50°-60°	23.6	1.9
60°-70°	16.4	1.3
70°-80°	13.7	1.1
80°-90°	3.5	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°	923.6	76.1
0°-40°	1117.0	92.1
0°-60°	1179.9	97.2
0°-90°	1213.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4218	
5°	3761	318
15°	1283	366
25°	504	239
35°	337	193
45°	44	39
55°	27	24
65°	16	16
75°	13	14
85°	1	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4217.8
1°	4180.5
2°	4104.8
3°	4010.0
4°	3900.2
5°	3760.6
6°	3579.4
7°	3350.3
8°	3082.9
9°	2810.1
10°	2530.9
11°	2252.7
12°	1986.3
13°	1731.6
14°	1498.3
15°	1283.0
16°	1108.3
17°	947.3
18°	821.6
19°	723.6
20°	651.1
22.5°	549.9
25°	504.0
26°	492.3
27°	483.8
28°	475.3
29°	465.7
30°	457.2
32.5°	425.2
35°	336.7
37.5°	216.3
40°	108.7
42.5°	52.2
45°	43.7
47.5°	38.4
50°	34.1
52.5°	29.8
55°	26.6
57.5°	22.4
60°	20.2
62.5°	18.1
65°	16.0
67.5°	14.9



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	12.8
77.5°	12.8
80°	10.7
82.5°	6.4
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







70°		13.9
72.5°		13.9



(END OF REPORT)