

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: P434657

Luminaire Tested: **HCM3R25935ED010MMS**

Issue Date: 11/24/2020

Test Information

Test Method: LM-41-14
Report Number: P434657
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: HCM3R25935ED010MMS
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: 3823.3 lumens
Efficiency: N/A
Efficacy: 93.5 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

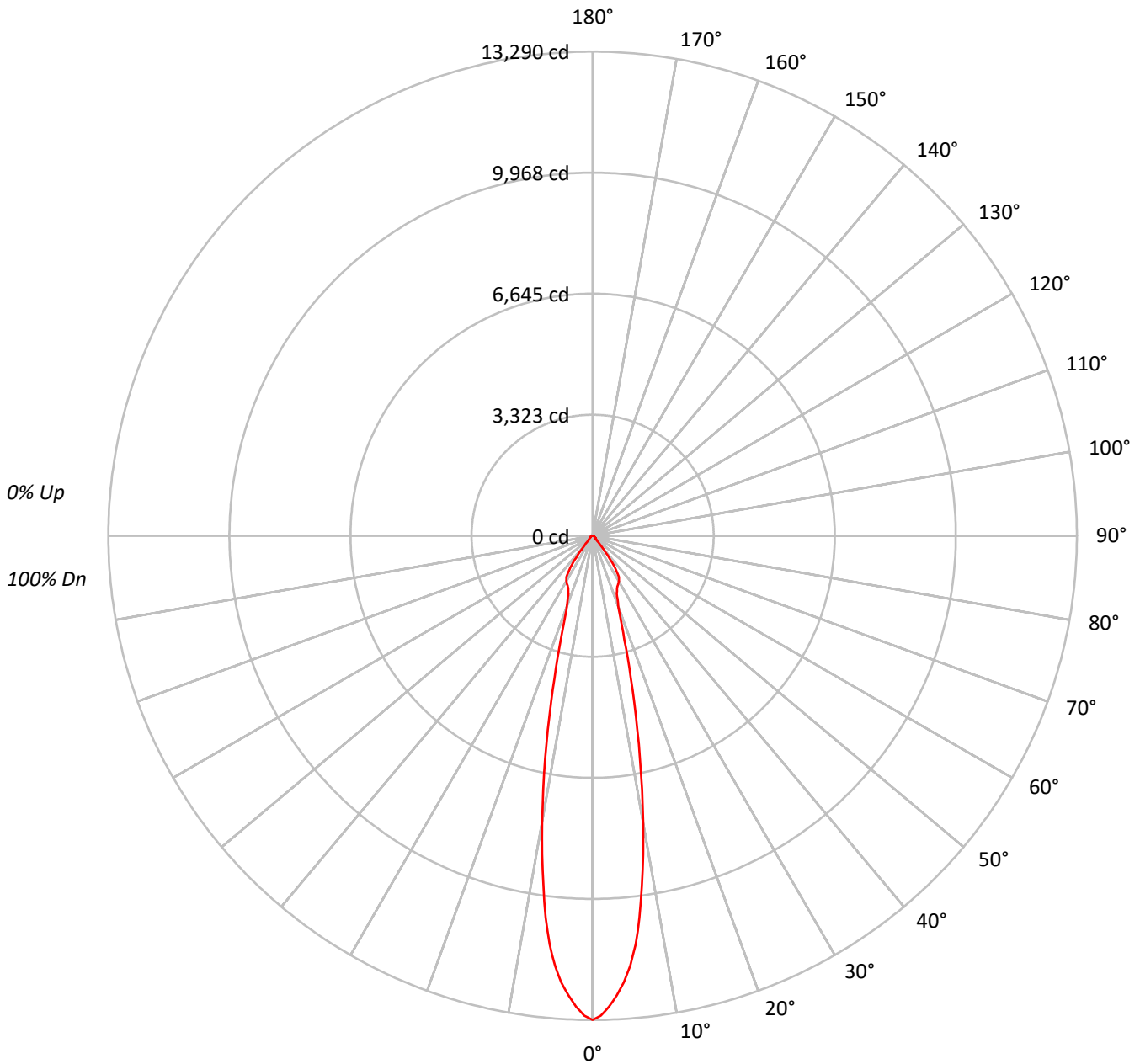
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6556817
5°	5868484
10°	3995100
15°	2064896
20°	1077127
25°	864591
30°	820604
35°	639046
40°	220591
45°	96079
50°	82436
55°	72169
60°	62955
65°	58839
70°	62895
75°	76823
80°	95466
85°	19247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1003.5	26.2
10°-20°	1153.4	30.2
20°-30°	753.2	19.7
30°-40°	609.6	15.9
40°-50°	123.6	3.2
50°-60°	74.5	1.9
60°-70°	51.5	1.3
70°-80°	43.0	1.1
80°-90°	10.9	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°	2910.1	76.1
0°-40°	3519.7	92.1
0°-60°	3717.8	97.2
0°-90°	3823.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3823.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13290	
5°	11849	###
15°	4043	1153
25°	1588	753
35°	1061	610
45°	138	124
55°	84	75
65°	50	52
75°	40	43
85°	3	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13289.6
1°	13172.1
2°	12933.7
3°	12634.9
4°	12289.0
5°	11849.2
6°	11278.4
7°	10556.5
8°	9713.7
9°	8854.1
10°	7974.4
11°	7098.1
12°	6258.7
13°	5456.2
14°	4720.9
15°	4042.6
16°	3492.0
17°	2985.0
18°	2588.8
19°	2279.9
20°	2051.5
22.5°	1732.6
25°	1588.2
26°	1551.2
27°	1524.4
28°	1497.5
29°	1467.3
30°	1440.4
32.5°	1339.7
35°	1061.0
37.5°	681.6
40°	342.5
42.5°	164.5
45°	137.7
47.5°	120.9
50°	107.4
52.5°	94.0
55°	83.9
57.5°	70.5
60°	63.8
62.5°	57.1
65°	50.4
67.5°	47.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	40.3
77.5°	40.3
80°	33.6
82.5°	20.1
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







70°	43.6
72.5°	43.6



(END OF REPORT)