

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: P434747

Luminaire Tested: **HCMR2R15927ED010MMS**

Issue Date: 11/24/2020

Test Information

Test Method: LM-41-14
Report Number: P434747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-933-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/24/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCMR2R15927ED010MMS
Description: HALO COMMERCIAL 4INCH ADJUSTABLE MULTIPLE, 15 DEG REFLECTOR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

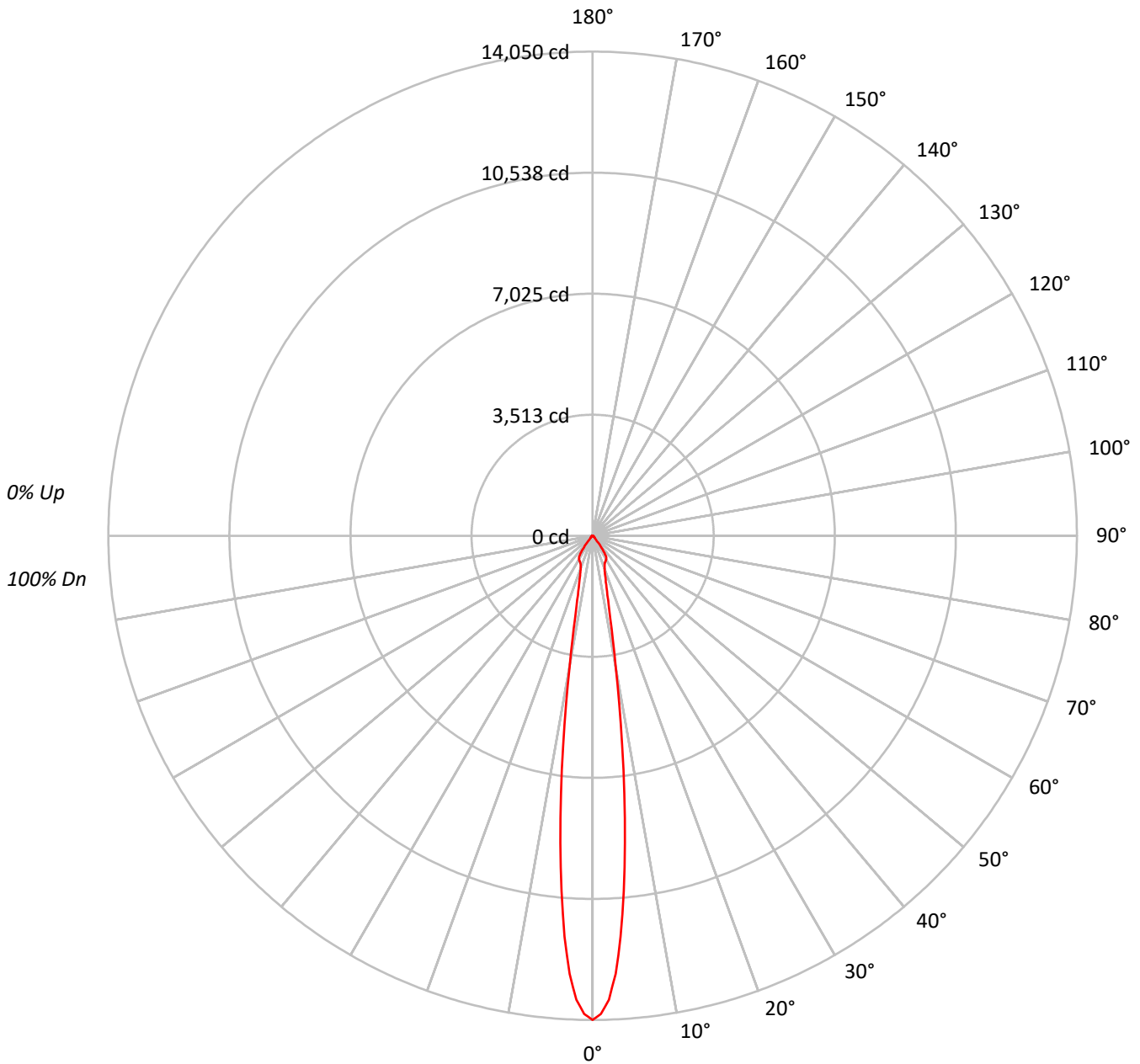
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	107	105	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81			
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77			
6	93	86	81	77	92	85	80	77	83	79	76	82	79	76	81	78	75	74			
7	90	82	77	74	89	82	77	73	80	76	73	79	75	73	78	75	72	71			
8	87	79	74	71	86	78	74	70	77	73	70	77	73	70	76	72	70	68			
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6932180
5°	5128758
10°	1934175
15°	795087
20°	533444
25°	463761
30°	449270
35°	350301
40°	117670
45°	57215
50°	50045
55°	35267
60°	31280
65°	30470
70°	32313
75°	42700
80°	52847
85°	10756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.7	35.6
10°-20°	479.7	22.4
20°-30°	399.4	18.7
30°-40°	333.5	15.6
40°-50°	70.8	3.3
50°-60°	39.0	1.8
60°-70°	26.1	1.2
70°-80°	22.7	1.1
80°-90°	6.1	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°	1641.8	76.7
0°-40°	1975.4	92.3
0°-60°	2085.2	97.4
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14050	
5°	10356	763
15°	1557	480
25°	852	399
35°	582	334
45°	82	71
55°	41	39
65°	26	26
75°	22	23
85°	2	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14050.4
1°	13880.8
2°	13468.8
3°	12732.4
4°	11660.5
5°	10355.6
6°	8959.3
7°	7538.8
8°	6150.0
9°	4921.5
10°	3860.7
11°	3044.2
12°	2466.3
13°	2061.8
14°	1772.8
15°	1556.6
16°	1390.7
17°	1262.1
18°	1161.4
19°	1083.1
20°	1016.0
22.5°	902.3
25°	851.9
26°	837.0
27°	825.8
28°	814.7
29°	801.6
30°	788.6
32.5°	736.4
35°	581.6
37.5°	371.0
40°	182.7
42.5°	87.6
45°	82.0
47.5°	76.4
50°	65.2
52.5°	50.3
55°	41.0
57.5°	35.4
60°	31.7
62.5°	28.0
65°	26.1
67.5°	24.2



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CANDELA DISTRIBUTION (continued):

	0°
75°	22.4
77.5°	20.5
80°	18.6
82.5°	11.2
85°	1.9
87.5°	0.0
90°	0.0



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— 0°-180°







70°		22.4
72.5°		22.4



(END OF REPORT)