

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: P434796

Luminaire Tested: **HCMR3R25927ED010MW**

Issue Date: 11/24/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434796  
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: HCMR3R25927ED010MW  
Description: HALO COMMERCIAL 4INCH ADJUSTABLE MULTIPLE, 25 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3413.1 lumens  
Efficiency: N/A  
Efficacy: 83.4 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

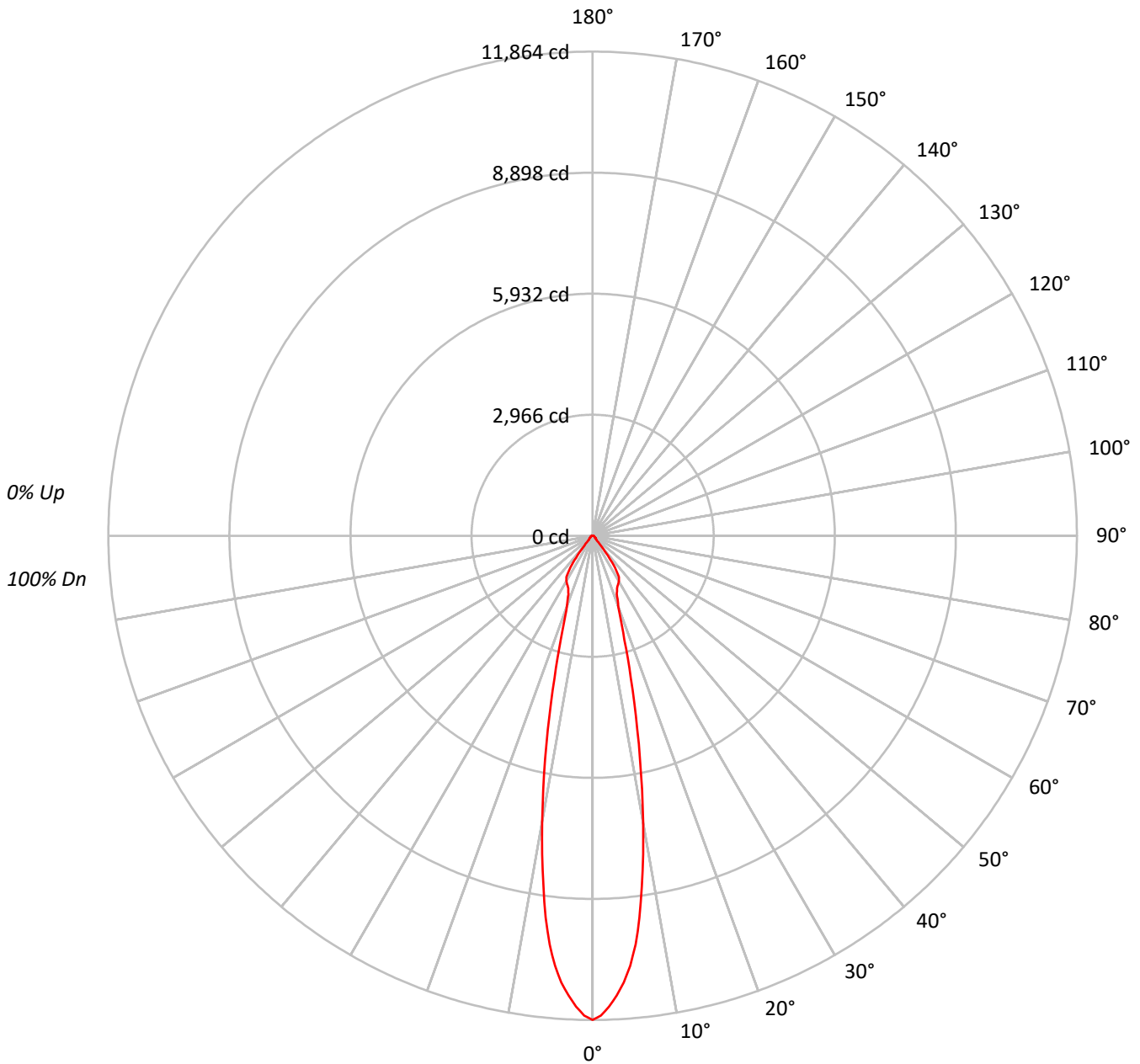
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5853208
5°	5238756
10°	3566403
15°	1843318
20°	961565
25°	771773
30°	732584
35°	570504
40°	196890
45°	85753
50°	73609
55°	64428
60°	56147
65°	52535
70°	56259
75°	68626
80°	85238
85°	16983



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	895.8	26.2
10°-20°	1029.6	30.2
20°-30°	672.4	19.7
30°-40°	544.2	15.9
40°-50°	110.3	3.2
50°-60°	66.5	1.9
60°-70°	46.0	1.3
70°-80°	38.5	1.1
80°-90°	9.8	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°	2597.8	76.1
0°-40°	3142.0	92.1
0°-60°	3318.8	97.2
0°-90°	3413.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3413.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11864	
5°	10578	896
15°	3609	1030
25°	1418	672
35°	947	544
45°	123	110
55°	75	67
65°	45	46
75°	36	38
85°	3	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11863.5
1°	11758.6
2°	11545.8
3°	11279.0
4°	10970.3
5°	10577.7
6°	10068.1
7°	9423.7
8°	8671.3
9°	7904.0
10°	7118.7
11°	6336.4
12°	5587.1
13°	4870.7
14°	4214.3
15°	3608.8
16°	3117.2
17°	2664.6
18°	2311.0
19°	2035.2
20°	1831.4
22.5°	1546.6
25°	1417.7
26°	1384.8
27°	1360.8
28°	1336.8
29°	1309.8
30°	1285.9
32.5°	1195.9
35°	947.2
37.5°	608.5
40°	305.7
42.5°	146.9
45°	122.9
47.5°	107.9
50°	95.9
52.5°	83.9
55°	74.9
57.5°	62.9
60°	56.9
62.5°	51.0
65°	45.0
67.5°	42.0



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	36.0
77.5°	36.0
80°	30.0
82.5°	18.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







70°		39.0
72.5°		39.0



(END OF REPORT)