

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: P593858

Luminaire Tested: **HC860D010-HM86080850-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC860D010-HM86080850-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6439.4 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

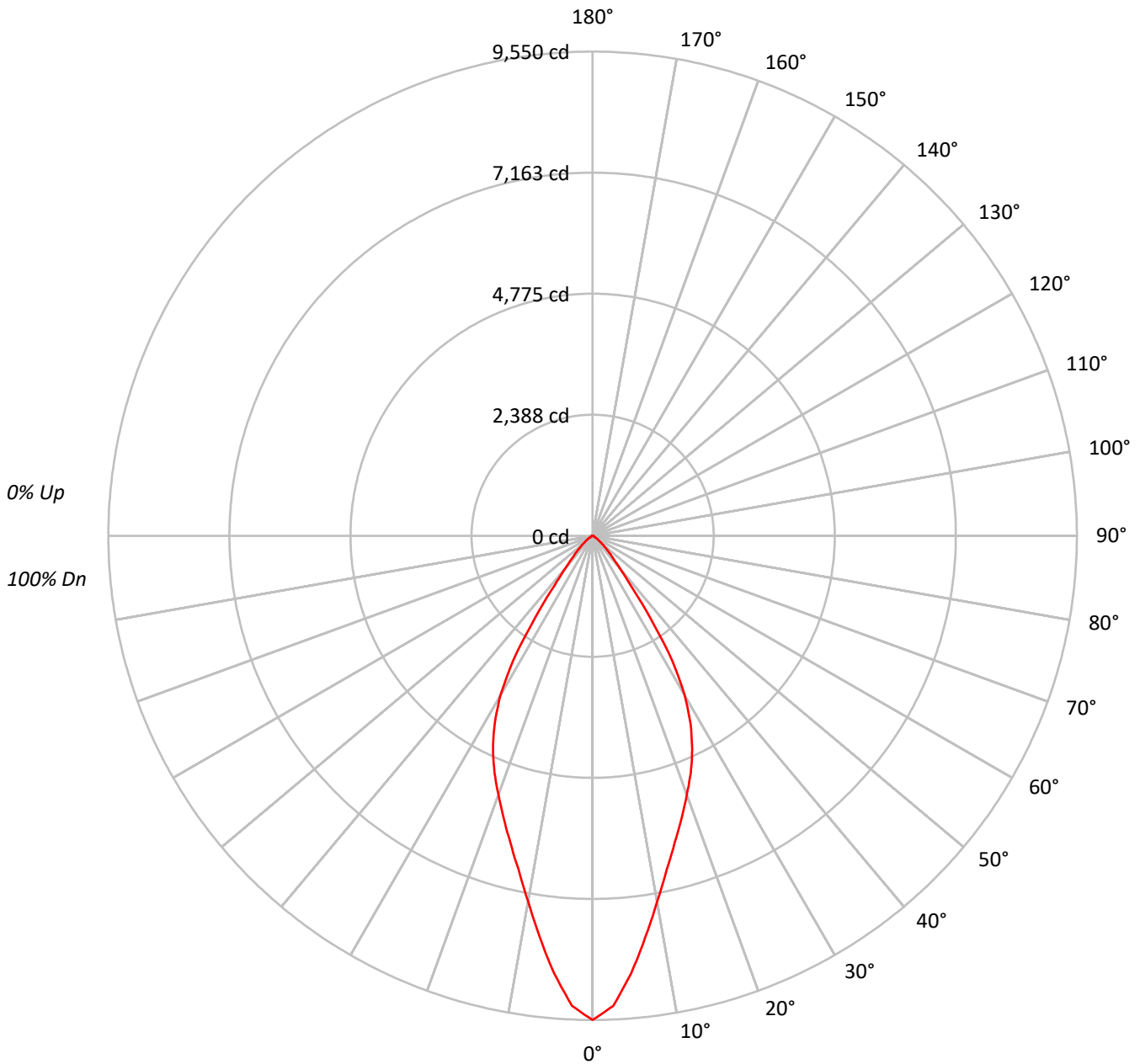
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	294487
5°	268357
10°	229288
15°	199957
20°	178220
25°	158090
30°	129438
35°	74328
40°	32988
45°	19201
50°	11082
55°	6322
60°	3491
65°	2233
70°	1569
75°	1048
80°	781
85°	1557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.8	12.2
10°-20°	1760.6	27.3
20°-30°	2107.5	32.7
30°-40°	1275.0	19.8
40°-50°	357.3	5.5
50°-60°	110.9	1.7
60°-70°	31.7	0.5
70°-80°	8.7	0.1
80°-90°	3.0	0.0
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°	4652.9	72.3
0°-40°	5927.8	92.1
0°-60°	6396.0	99.3
0°-90°	6439.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6439.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9550	
5°	8670	785
15°	6264	1761
25°	4646	2107
35°	1974	1275
45°	440	357
55°	118	111
65°	31	32
75°	9	9
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9550.0
2.5°	9279.8
5°	8669.5
7.5°	7980.8
10°	7322.7
12.5°	6747.3
15°	6263.5
17.5°	5836.3
20°	5431.0
22.5°	5056.2
25°	4646.4
27.5°	4184.4
30°	3635.2
32.5°	2924.7
35°	1974.5
37.5°	1229.2
40°	819.5
42.5°	588.5
45°	440.3
47.5°	322.5
50°	231.0
52.5°	161.2
55°	117.6
57.5°	78.4
60°	56.6
62.5°	39.2
65°	30.6
67.5°	21.8
70°	17.4
72.5°	8.8
75°	8.8
77.5°	4.4
80°	4.4
82.5°	4.4
85°	4.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)