

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: P583594

Luminaire Tested: **HC807D010-HM80520835-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583594  
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: HC807D010-HM80520835-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 956.4 lumens  
Efficiency: N/A  
Efficacy: 119.5 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

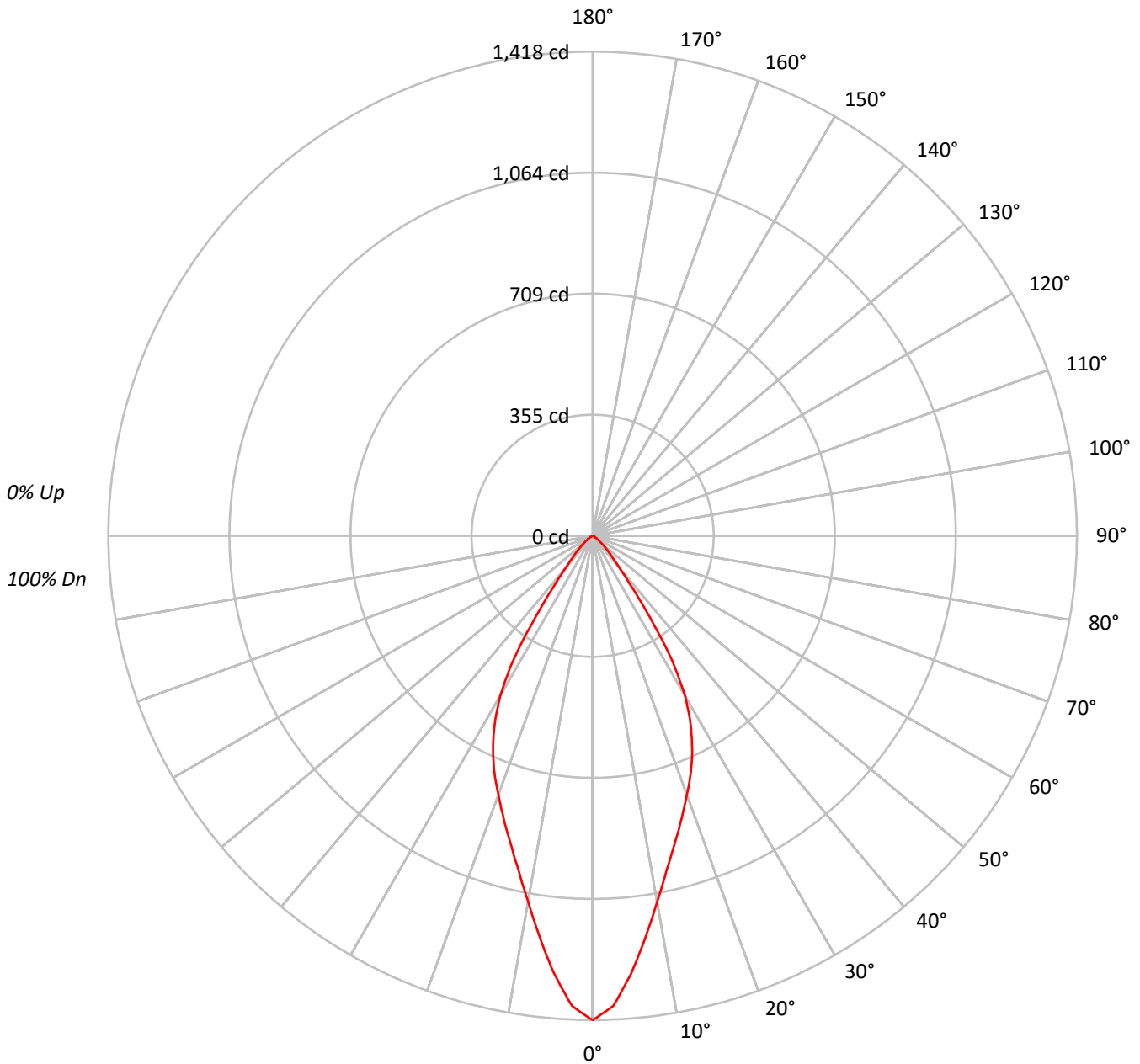
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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	91	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	65	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	57	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°	43741
5°	39860
10°	34058
15°	29699
20°	26472
25°	23480
30°	19224
35°	11041
40°	4903
45°	2852
50°	1645
55°	935
60°	518
65°	328
70°	234
75°	155
80°	107
85°	212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.6	12.2
10°-20°	261.5	27.3
20°-30°	313.0	32.7
30°-40°	189.4	19.8
40°-50°	53.1	5.5
50°-60°	16.5	1.7
60°-70°	4.7	0.5
70°-80°	1.3	0.1
80°-90°	0.4	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°	691.1	72.3
0°-40°	880.5	92.1
0°-60°	950.0	99.3
0°-90°	956.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1418	
5°	1288	117
15°	930	262
25°	690	313
35°	293	189
45°	65	53
55°	17	16
65°	4	5
75°	1	1
85°	1	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1418.5
2.5°	1378.4
5°	1287.7
7.5°	1185.4
10°	1087.7
12.5°	1002.2
15°	930.3
17.5°	866.9
20°	806.7
22.5°	751.1
25°	690.1
27.5°	621.5
30°	539.9
32.5°	434.4
35°	293.3
37.5°	182.6
40°	121.8
42.5°	87.4
45°	65.4
47.5°	47.9
50°	34.3
52.5°	23.9
55°	17.4
57.5°	11.7
60°	8.4
62.5°	5.9
65°	4.5
67.5°	3.2
70°	2.6
72.5°	1.3
75°	1.3
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)