

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: P581408

Luminaire Tested: **HC407D010-HM40525827-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC407D010-HM40525827-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 852.3 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

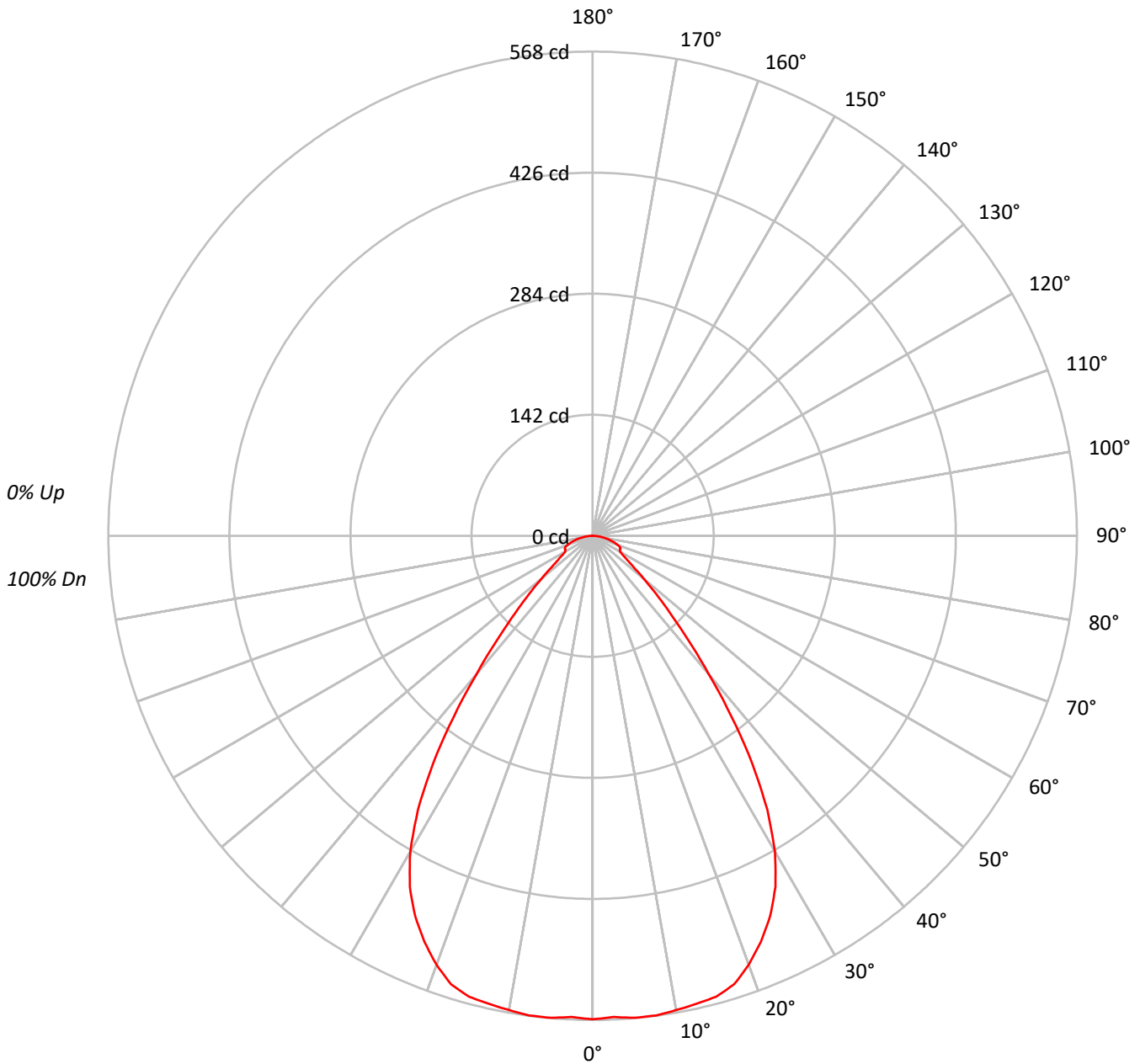
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P581408

CATALOG NUMBER: HC407D010-HM40525827-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P581408

CATALOG NUMBER: HC407D010-HM40525827-41WDWB

**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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	69962
5°	70278
10°	70765
15°	71485
20°	70278
25°	67041
30°	60930
35°	49148
40°	34103
45°	22398
50°	15006
55°	10666
60°	9128
65°	10507
70°	11252
75°	10866
80°	9802
85°	9057



TEST NUMBER: P581408

CATALOG NUMBER: HC407D010-HM40525827-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	6.3
10°-20°	157.2	18.5
20°-30°	224.7	26.4
30°-40°	200.7	23.6
40°-50°	103.0	12.1
50°-60°	46.8	5.5
60°-70°	34.9	4.1
70°-80°	23.8	2.8
80°-90°	7.0	0.8
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°	436.0	51.2
0°-40°	636.7	74.7
0°-60°	786.5	92.3
0°-90°	852.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	567	
5°	568	54
15°	560	157
25°	493	225
35°	326	201
45°	128	103
55°	50	47
65°	36	35
75°	23	24
85°	6	7
90°	0	



TEST NUMBER: P581408

CATALOG NUMBER: HC407D010-HM40525827-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	567.2
2.5°	565.0
5°	567.6
7.5°	567.6
10°	565.0
12.5°	562.4
15°	559.8
17.5°	551.8
20°	535.4
22.5°	515.4
25°	492.6
27.5°	464.2
30°	427.8
32.5°	381.2
35°	326.4
37.5°	267.8
40°	211.8
42.5°	165.2
45°	128.4
47.5°	100.4
50°	78.2
52.5°	61.2
55°	49.6
57.5°	41.8
60°	37.0
62.5°	36.0
65°	36.0
67.5°	34.8
70°	31.2
72.5°	27.0
75°	22.8
77.5°	18.0
80°	13.8
82.5°	10.0
85°	6.4
87.5°	2.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)