

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: P592572

Luminaire Tested: **HC407D010-HM40525850-41MDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC407D010-HM40525850-41MDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 940.4 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

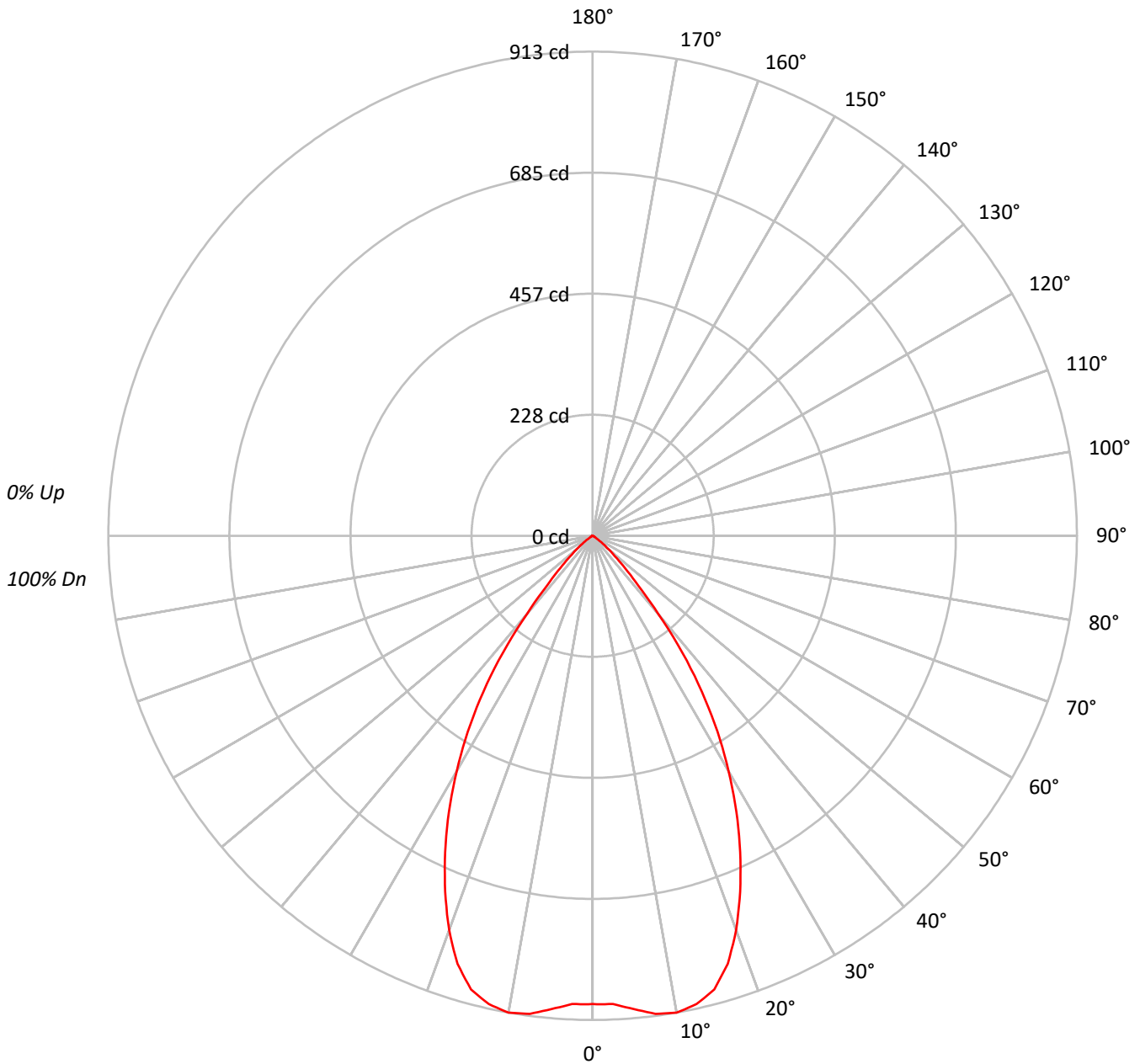
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P592572

CATALOG NUMBER: HC407D010-HM40525850-41MDC

### Luminous Intensity Polar Plot





TEST NUMBER: P592572

CATALOG NUMBER: HC407D010-HM40525850-41MDC

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49

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

	0°
0°	108939
5°	110927
10°	114352
15°	113088
20°	103841
25°	89579
30°	73008
35°	54057
40°	30996
45°	14984
50°	7138
55°	2495
60°	888
65°	525
70°	469
75°	286
80°	0
85°	0



TEST NUMBER: P592572

CATALOG NUMBER: HC407D010-HM40525850-41MDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	9.2
10°-20°	245.5	26.1
20°-30°	299.8	31.9
30°-40°	220.4	23.4
40°-50°	73.0	7.8
50°-60°	12.9	1.4
60°-70°	2.0	0.2
70°-80°	0.6	0.1
80°-90°	0.0	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°	631.5	67.1
0°-40°	851.9	90.6
0°-60°	937.8	99.7
0°-90°	940.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	883	
5°	896	86
15°	886	246
25°	658	300
35°	359	220
45°	86	73
55°	12	13
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P592572

CATALOG NUMBER: HC407D010-HM40525850-41MDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	883.2
2.5°	883.8
5°	895.9
7.5°	909.4
10°	913.0
12.5°	904.5
15°	885.6
17.5°	846.6
20°	791.1
22.5°	726.5
25°	658.2
27.5°	587.0
30°	512.6
32.5°	438.2
35°	359.0
37.5°	278.6
40°	192.5
42.5°	127.3
45°	85.9
47.5°	57.2
50°	37.2
52.5°	22.0
55°	11.6
57.5°	4.9
60°	3.6
62.5°	2.4
65°	1.8
67.5°	1.3
70°	1.3
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)