

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: P592603

Luminaire Tested: **HC410D010-HM40525950-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592603  
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: HC410D010-HM40525950-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1096.7 lumens  
Efficiency: N/A  
Efficacy: 110.8 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

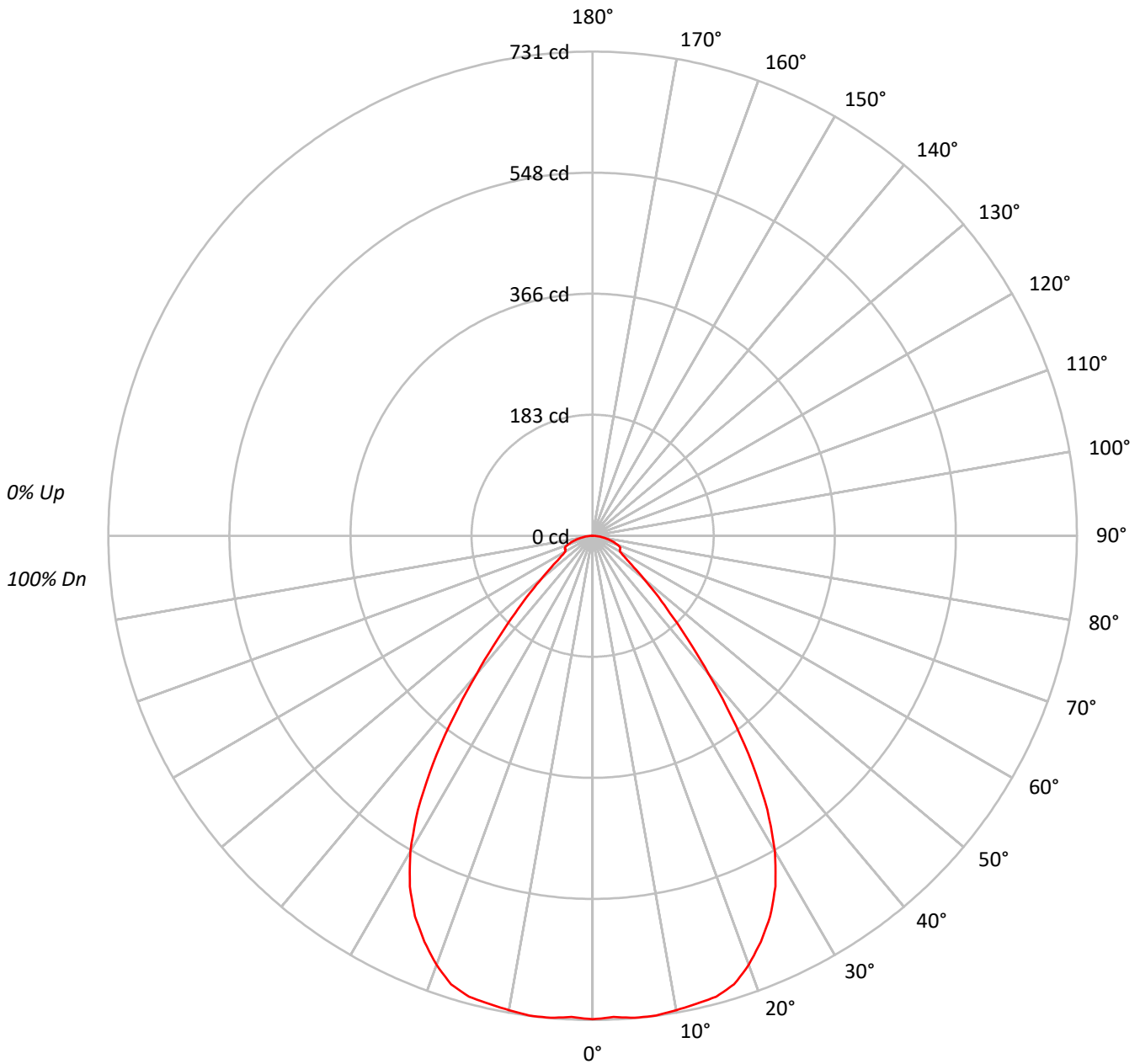
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P592603

CATALOG NUMBER: HC410D010-HM40525950-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P592603

CATALOG NUMBER: HC410D010-HM40525950-41WDWB

**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	57	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°	90030
5°	90461
10°	91081
15°	91993
20°	90466
25°	86299
30°	78406
35°	63242
40°	43893
45°	28800
50°	19304
55°	13720
60°	11743
65°	13484
70°	14462
75°	13916
80°	12502
85°	11605



TEST NUMBER: P592603

CATALOG NUMBER: HC410D010-HM40525950-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	6.3
10°-20°	202.4	18.5
20°-30°	289.1	26.4
30°-40°	258.3	23.6
40°-50°	132.5	12.1
50°-60°	60.2	5.5
60°-70°	44.9	4.1
70°-80°	30.6	2.8
80°-90°	9.1	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°	561.1	51.2
0°-40°	819.4	74.7
0°-60°	1012.2	92.3
0°-90°	1096.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	730	
5°	731	70
15°	720	202
25°	634	289
35°	420	258
45°	165	132
55°	64	60
65°	46	45
75°	29	31
85°	8	9
90°	0	



TEST NUMBER: P592603

CATALOG NUMBER: HC410D010-HM40525950-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	729.9
2.5°	727.2
5°	730.6
7.5°	730.6
10°	727.2
12.5°	723.8
15°	720.4
17.5°	710.2
20°	689.2
22.5°	663.3
25°	634.1
27.5°	597.3
30°	550.5
32.5°	490.7
35°	420.0
37.5°	344.6
40°	272.6
42.5°	212.7
45°	165.1
47.5°	129.2
50°	100.6
52.5°	78.9
55°	63.8
57.5°	53.7
60°	47.6
62.5°	46.2
65°	46.2
67.5°	44.8
70°	40.1
72.5°	34.7
75°	29.2
77.5°	23.1
80°	17.6
82.5°	12.9
85°	8.2
87.5°	3.4
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)