

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: P579784

Luminaire Tested: **HC410D010-HM40525930-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525930-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 856.6 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

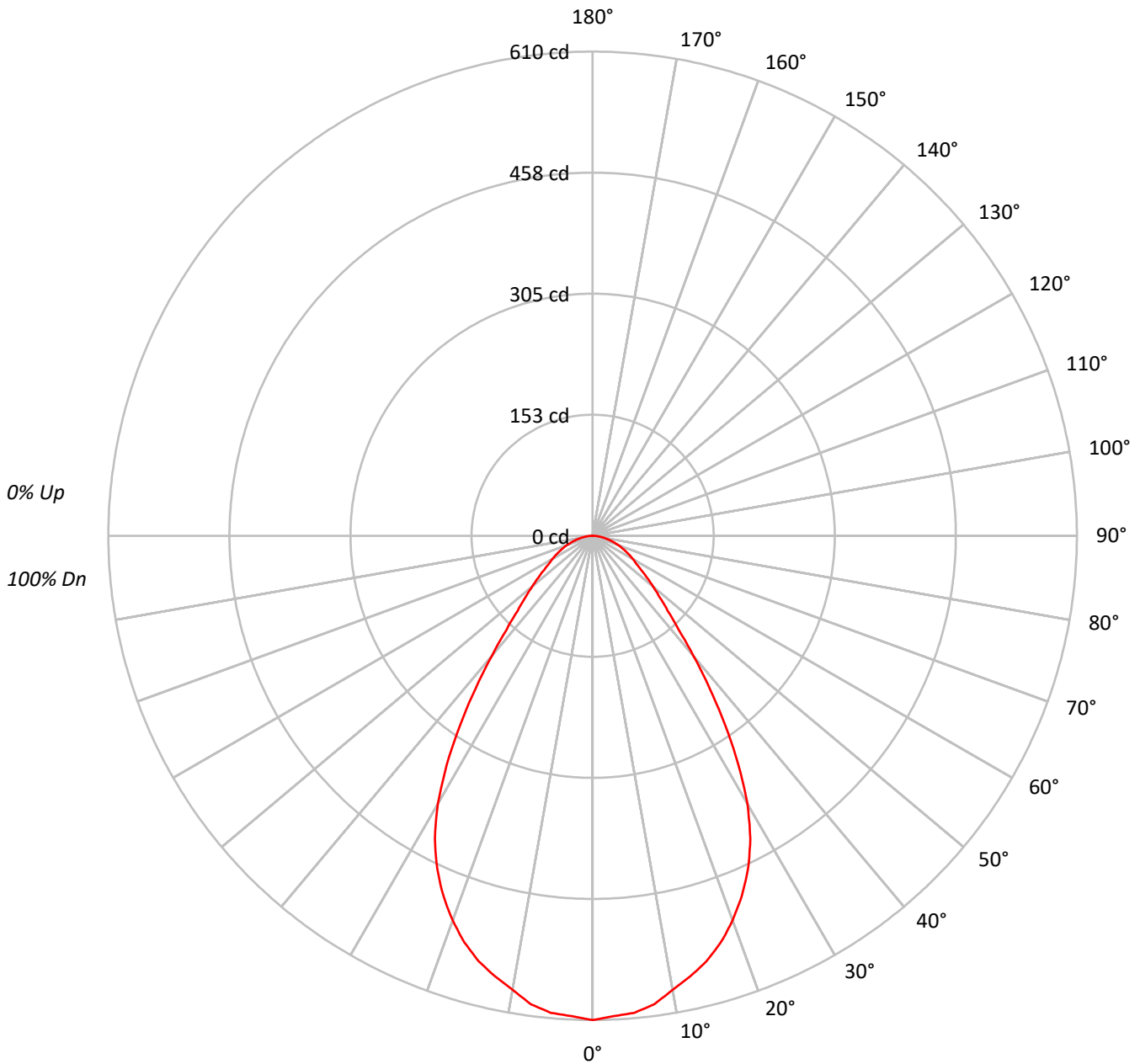
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75253
5°	74699
10°	72744
15°	70833
20°	67665
25°	63040
30°	55518
35°	43788
40°	31769
45°	23340
50°	18997
55°	15935
60°	14431
65°	13250
70°	12370
75°	11295
80°	10158
85°	8916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	6.6
10°-20°	155.6	18.2
20°-30°	210.9	24.6
30°-40°	181.0	21.1
40°-50°	106.9	12.5
50°-60°	67.7	7.9
60°-70°	45.5	5.3
70°-80°	25.2	2.9
80°-90°	7.1	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°	423.4	49.4
0°-40°	604.4	70.6
0°-60°	778.9	90.9
0°-90°	856.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	856.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	610	
5°	603	57
15°	555	156
25°	463	211
35°	291	181
45°	134	107
55°	74	68
65°	45	45
75°	24	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	610.1
2.5°	605.8
5°	603.3
7.5°	595.2
10°	580.8
12.5°	568.4
15°	554.7
17.5°	537.2
20°	515.5
22.5°	491.2
25°	463.2
27.5°	430.2
30°	389.8
32.5°	341.7
35°	290.8
37.5°	241.6
40°	197.3
42.5°	160.6
45°	133.8
47.5°	114.6
50°	99.0
52.5°	85.9
55°	74.1
57.5°	64.8
60°	58.5
62.5°	52.3
65°	45.4
67.5°	39.8
70°	34.3
72.5°	28.7
75°	23.7
77.5°	18.7
80°	14.3
82.5°	10.0
85°	6.3
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)