

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: P592604

Luminaire Tested: **HC410D010-HM40525850-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525850-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1109.2 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

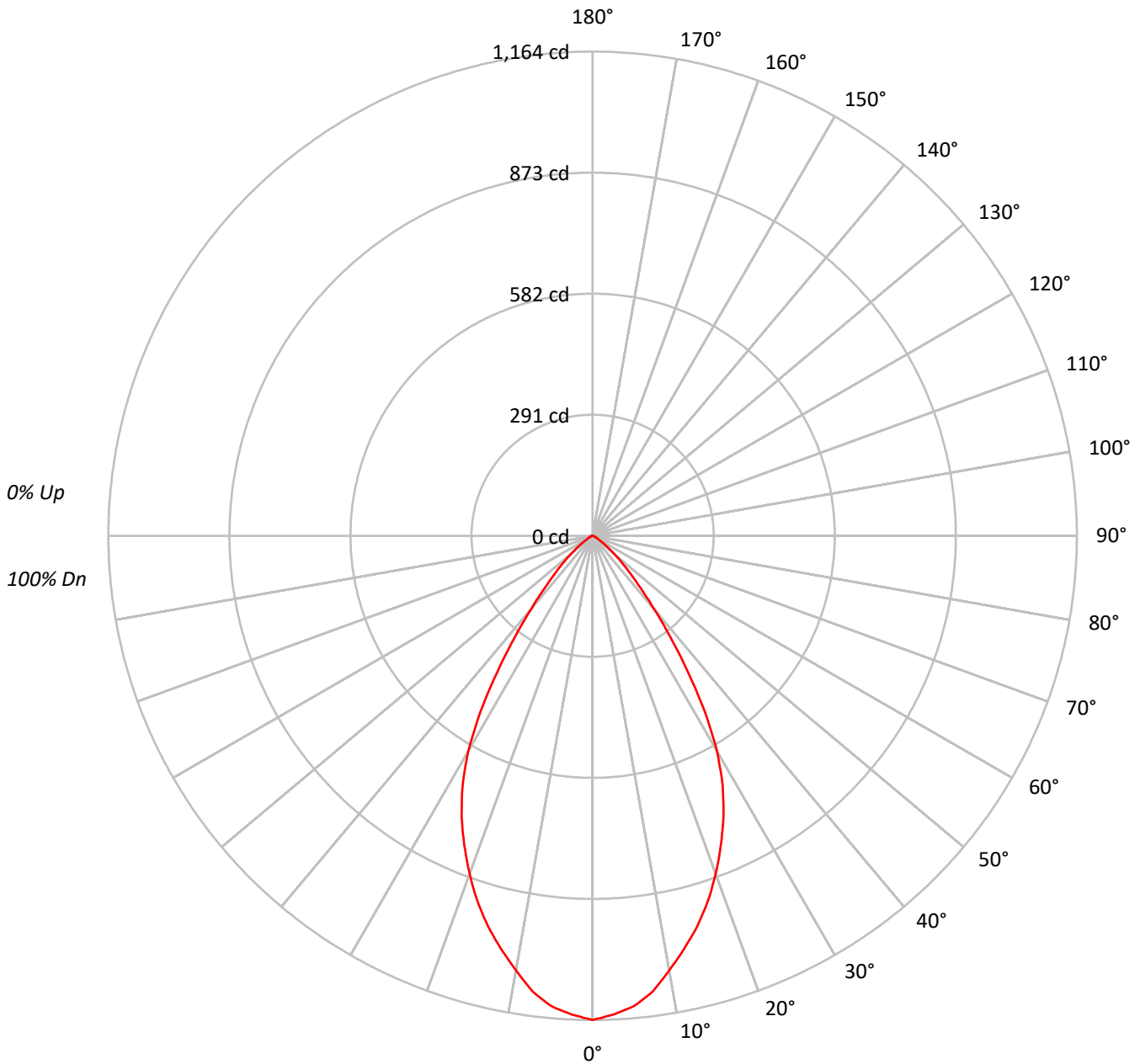
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143587
5°	140594
10°	132851
15°	124083
20°	113476
25°	101338
30°	85115
35°	59869
40°	36921
45°	22119
50°	13029
55°	6494
60°	3330
65°	2189
70°	1370
75°	1096
80°	568
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	9.6
10°-20°	271.6	24.5
20°-30°	338.7	30.5
30°-40°	249.5	22.5
40°-50°	102.6	9.3
50°-60°	30.0	2.7
60°-70°	7.7	0.7
70°-80°	2.4	0.2
80°-90°	0.5	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°	716.4	64.6
0°-40°	965.9	87.1
0°-60°	1098.5	99.0
0°-90°	1109.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1109.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1164	
5°	1136	106
15°	972	272
25°	745	339
35°	398	250
45°	127	103
55°	30	30
65°	8	8
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1164.1
2.5°	1152.0
5°	1135.5
7.5°	1105.2
10°	1060.7
12.5°	1017.0
15°	971.7
17.5°	921.2
20°	864.5
22.5°	805.7
25°	744.6
27.5°	676.8
30°	597.6
32.5°	501.7
35°	397.6
37.5°	305.6
40°	229.3
42.5°	169.8
45°	126.8
47.5°	93.5
50°	67.9
52.5°	46.8
55°	30.2
57.5°	18.1
60°	13.5
62.5°	9.8
65°	7.5
67.5°	5.2
70°	3.8
72.5°	3.1
75°	2.3
77.5°	1.5
80°	0.8
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)