

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: P592611

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525950-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 981.1 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

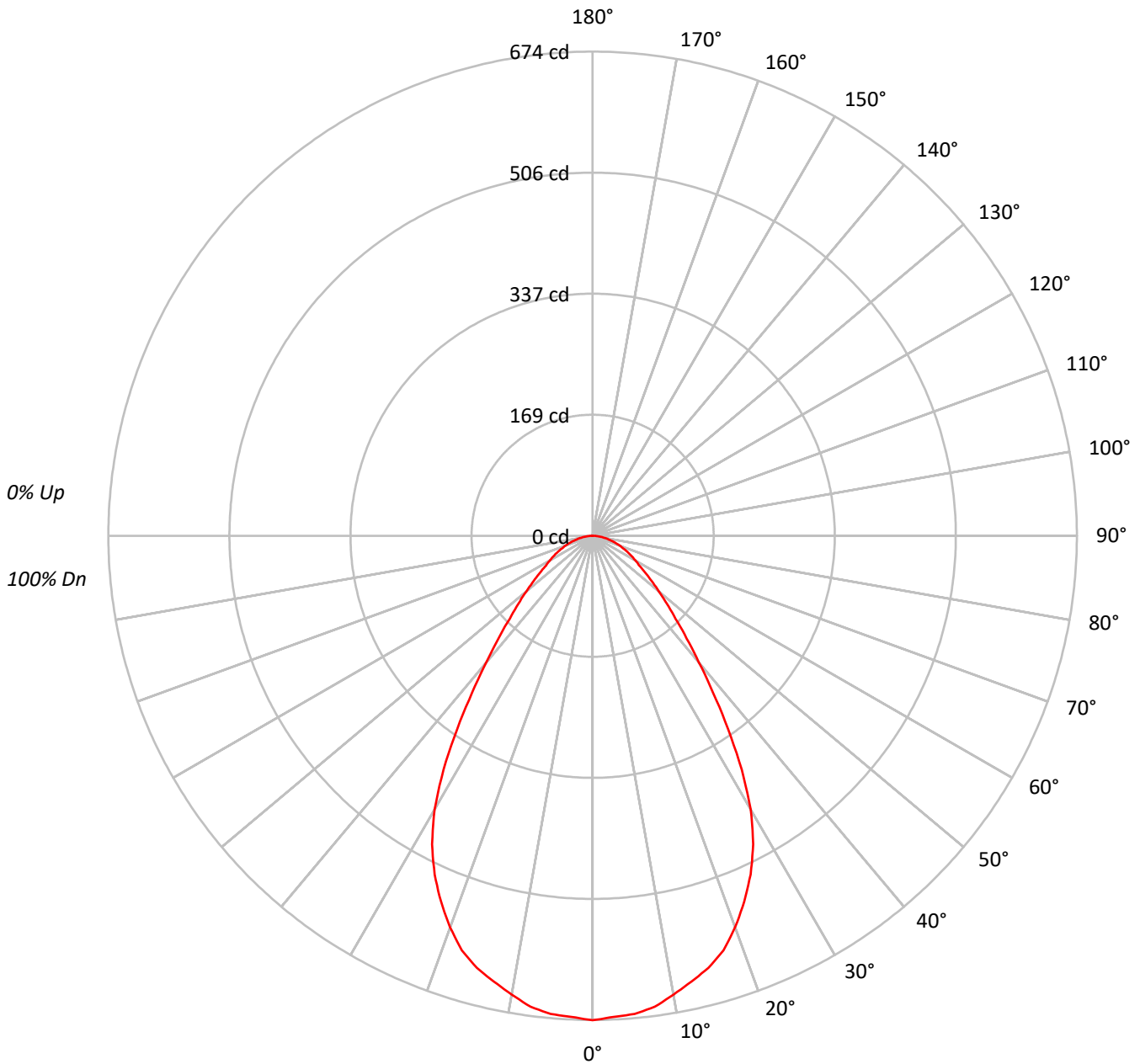
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83184
5°	82734
10°	81224
15°	79517
20°	76119
25°	70784
30°	62640
35°	49434
40°	37002
45°	28468
50°	23085
55°	19161
60°	16923
65°	15673
70°	14462
75°	13296
80°	12075
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	6.4
10°-20°	174.6	17.8
20°-30°	237.1	24.2
30°-40°	205.4	20.9
40°-50°	129.0	13.1
50°-60°	81.1	8.3
60°-70°	53.3	5.4
70°-80°	29.4	3.0
80°-90°	8.1	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°	474.9	48.4
0°-40°	680.3	69.3
0°-60°	890.4	90.8
0°-90°	981.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	674	
5°	668	63
15°	623	175
25°	520	237
35°	328	205
45°	163	129
55°	89	81
65°	54	53
75°	28	29
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	674.4
2.5°	670.3
5°	668.2
7.5°	661.4
10°	648.5
12.5°	635.6
15°	622.7
17.5°	605.1
20°	579.9
22.5°	551.4
25°	520.1
27.5°	484.0
30°	439.8
32.5°	386.1
35°	328.3
37.5°	275.3
40°	229.8
42.5°	193.7
45°	163.2
47.5°	140.1
50°	120.3
52.5°	103.3
55°	89.1
57.5°	76.8
60°	68.6
62.5°	61.2
65°	53.7
67.5°	46.2
70°	40.1
72.5°	33.3
75°	27.9
77.5°	21.7
80°	17.0
82.5°	11.6
85°	6.8
87.5°	2.7
90°	0.0



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— 0°-180°







(END OF REPORT)