

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: P581452

Luminaire Tested: **HC407D010-HM40525835-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581452
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: HC407D010-HM40525835-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 855.9 lumens
Efficiency: N/A
Efficacy: 107.0 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

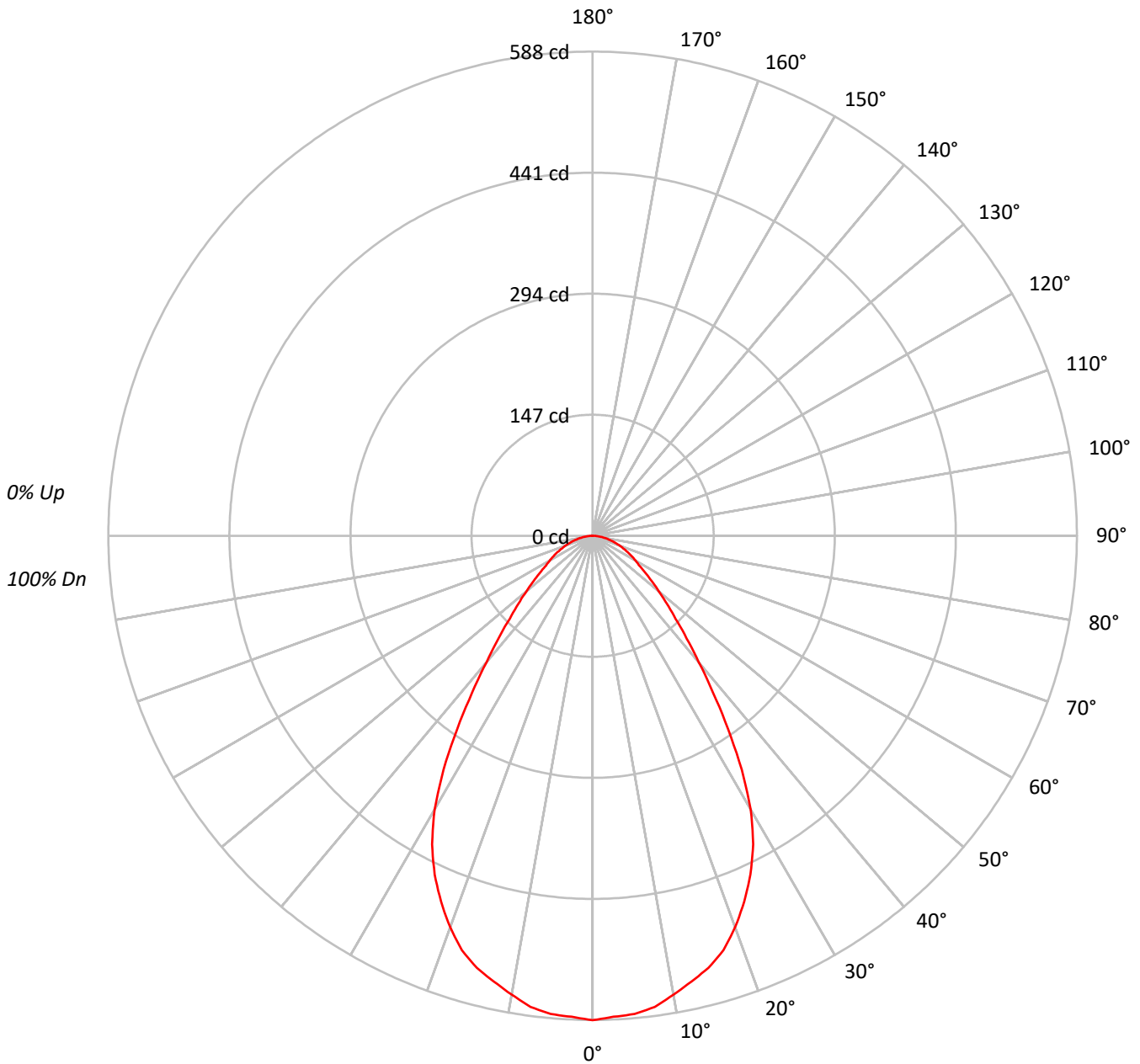
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	72564
5°	72185
10°	70866
15°	69378
20°	66392
25°	61747
30°	54649
35°	43125
40°	32268
45°	24840
50°	20129
55°	16709
60°	14777
65°	13688
70°	12586
75°	11628
80°	10513
85°	8350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	6.4
10°-20°	152.3	17.8
20°-30°	206.8	24.2
30°-40°	179.2	20.9
40°-50°	112.5	13.1
50°-60°	70.8	8.3
60°-70°	46.5	5.4
70°-80°	25.6	3.0
80°-90°	7.0	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°	414.3	48.4
0°-40°	593.5	69.3
0°-60°	776.7	90.8
0°-90°	855.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	855.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	588	
5°	583	55
15°	543	152
25°	454	207
35°	286	179
45°	142	113
55°	78	71
65°	47	46
75°	24	26
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	588.3
2.5°	584.7
5°	583.0
7.5°	577.1
10°	565.8
12.5°	554.5
15°	543.3
17.5°	527.8
20°	505.8
22.5°	480.9
25°	453.7
27.5°	422.2
30°	383.7
32.5°	336.8
35°	286.4
37.5°	240.2
40°	200.4
42.5°	169.0
45°	142.4
47.5°	122.2
50°	104.9
52.5°	90.1
55°	77.7
57.5°	67.0
60°	59.9
62.5°	53.4
65°	46.9
67.5°	40.3
70°	34.9
72.5°	29.0
75°	24.4
77.5°	19.0
80°	14.8
82.5°	10.1
85°	5.9
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)