

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: P581488

Luminaire Tested: **HC407D010-HM40525927-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581488
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-HM40525927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 652.2 lumens
Efficiency: N/A
Efficacy: 81.5 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

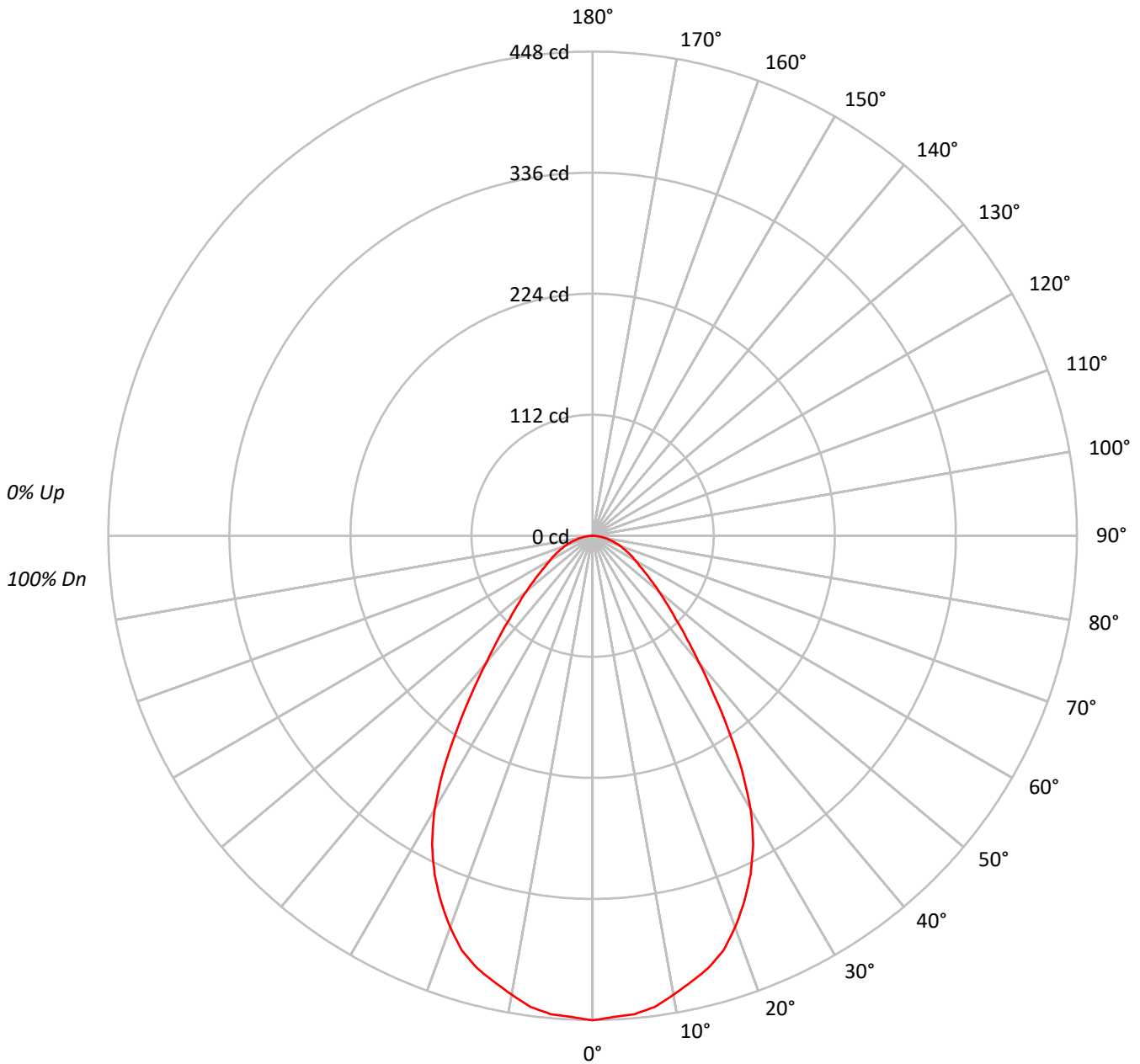
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55296
5°	55012
10°	54007
15°	52866
20°	50588
25°	47049
30°	41646
35°	32871
40°	24587
45°	18926
50°	15351
55°	12731
60°	11249
65°	10419
70°	9593
75°	8817
80°	8027
85°	6510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	6.4
10°-20°	116.1	17.8
20°-30°	157.6	24.2
30°-40°	136.5	20.9
40°-50°	85.7	13.1
50°-60°	53.9	8.3
60°-70°	35.4	5.4
70°-80°	19.6	3.0
80°-90°	5.4	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°	315.7	48.4
0°-40°	452.2	69.3
0°-60°	591.9	90.8
0°-90°	652.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	448	
5°	444	42
15°	414	116
25°	346	158
35°	218	137
45°	108	86
55°	59	54
65°	36	35
75°	18	20
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	448.3
2.5°	445.6
5°	444.3
7.5°	439.7
10°	431.2
12.5°	422.5
15°	414.0
17.5°	402.2
20°	385.4
22.5°	366.5
25°	345.7
27.5°	321.7
30°	292.4
32.5°	256.7
35°	218.3
37.5°	183.0
40°	152.7
42.5°	128.8
45°	108.5
47.5°	93.1
50°	80.0
52.5°	68.7
55°	59.2
57.5°	51.1
60°	45.6
62.5°	40.6
65°	35.7
67.5°	30.7
70°	26.6
72.5°	22.2
75°	18.5
77.5°	14.5
80°	11.3
82.5°	7.7
85°	4.6
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)