

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: P581434

Luminaire Tested: **HC407D010-HM40525830-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581434
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-HM40525830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 825.7 lumens
Efficiency: N/A
Efficacy: 103.2 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

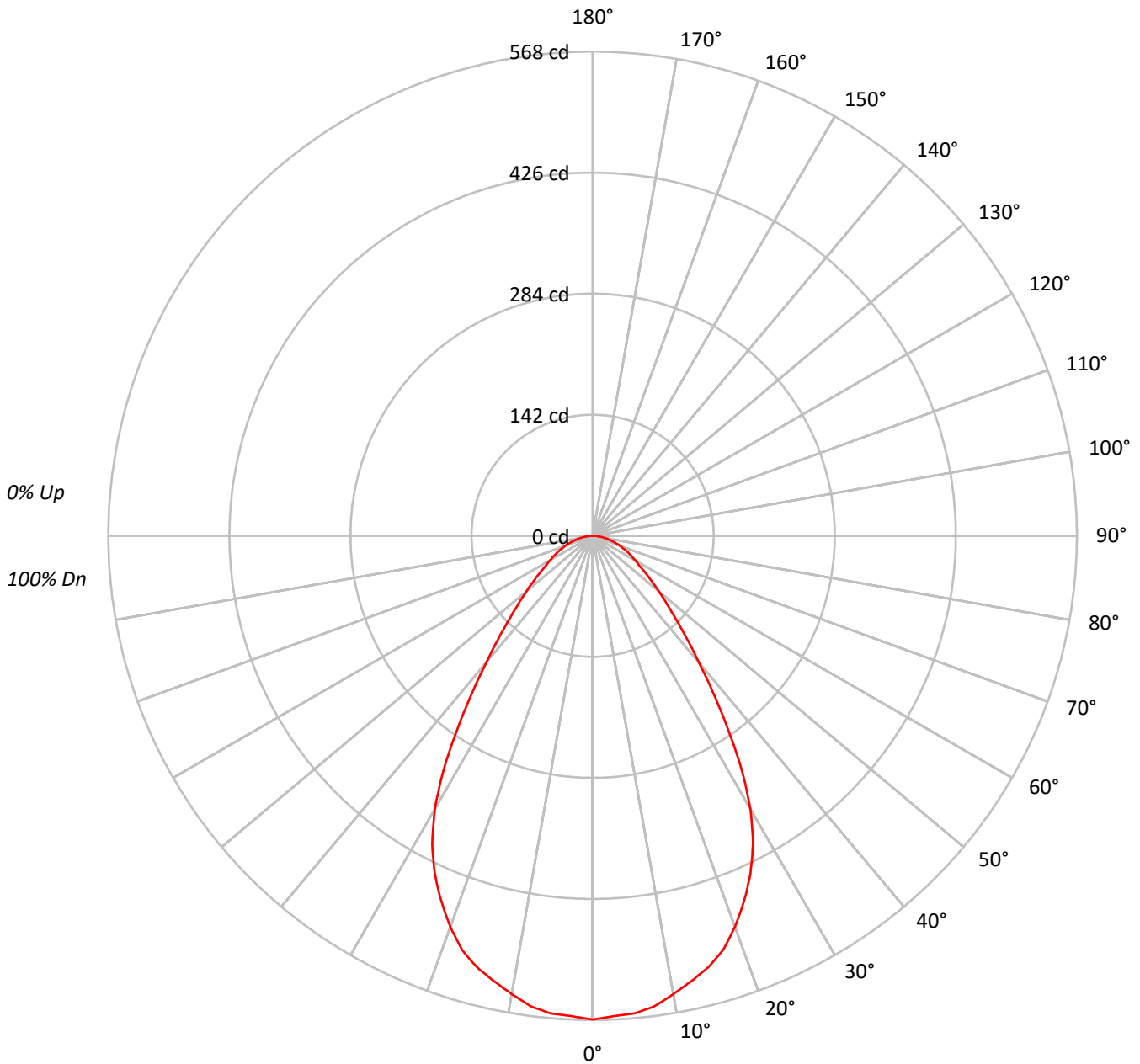
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	69999
5°	69635
10°	68361
15°	66913
20°	64056
25°	59570
30°	52727
35°	41604
40°	31124
45°	23968
50°	19439
55°	16128
60°	14259
65°	13192
70°	12190
75°	11152
80°	10158
85°	8067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	6.4
10°-20°	147.0	17.8
20°-30°	199.6	24.2
30°-40°	172.9	20.9
40°-50°	108.6	13.1
50°-60°	68.3	8.3
60°-70°	44.8	5.4
70°-80°	24.7	3.0
80°-90°	6.8	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°	399.7	48.4
0°-40°	572.6	69.3
0°-60°	749.4	90.8
0°-90°	825.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	825.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	568	
5°	562	53
15°	524	147
25°	438	200
35°	276	173
45°	137	109
55°	75	68
65°	45	45
75°	23	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	567.5
2.5°	564.1
5°	562.4
7.5°	556.7
10°	545.8
12.5°	535.0
15°	524.0
17.5°	509.3
20°	488.0
22.5°	464.0
25°	437.7
27.5°	407.4
30°	370.2
32.5°	325.0
35°	276.3
37.5°	231.7
40°	193.3
42.5°	163.1
45°	137.4
47.5°	117.9
50°	101.3
52.5°	86.9
55°	75.0
57.5°	64.6
60°	57.8
62.5°	51.4
65°	45.2
67.5°	38.9
70°	33.8
72.5°	28.0
75°	23.4
77.5°	18.3
80°	14.3
82.5°	9.7
85°	5.7
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)