

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: P592576

Luminaire Tested: **HC407D010-HM40525850-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525850-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 838.2 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

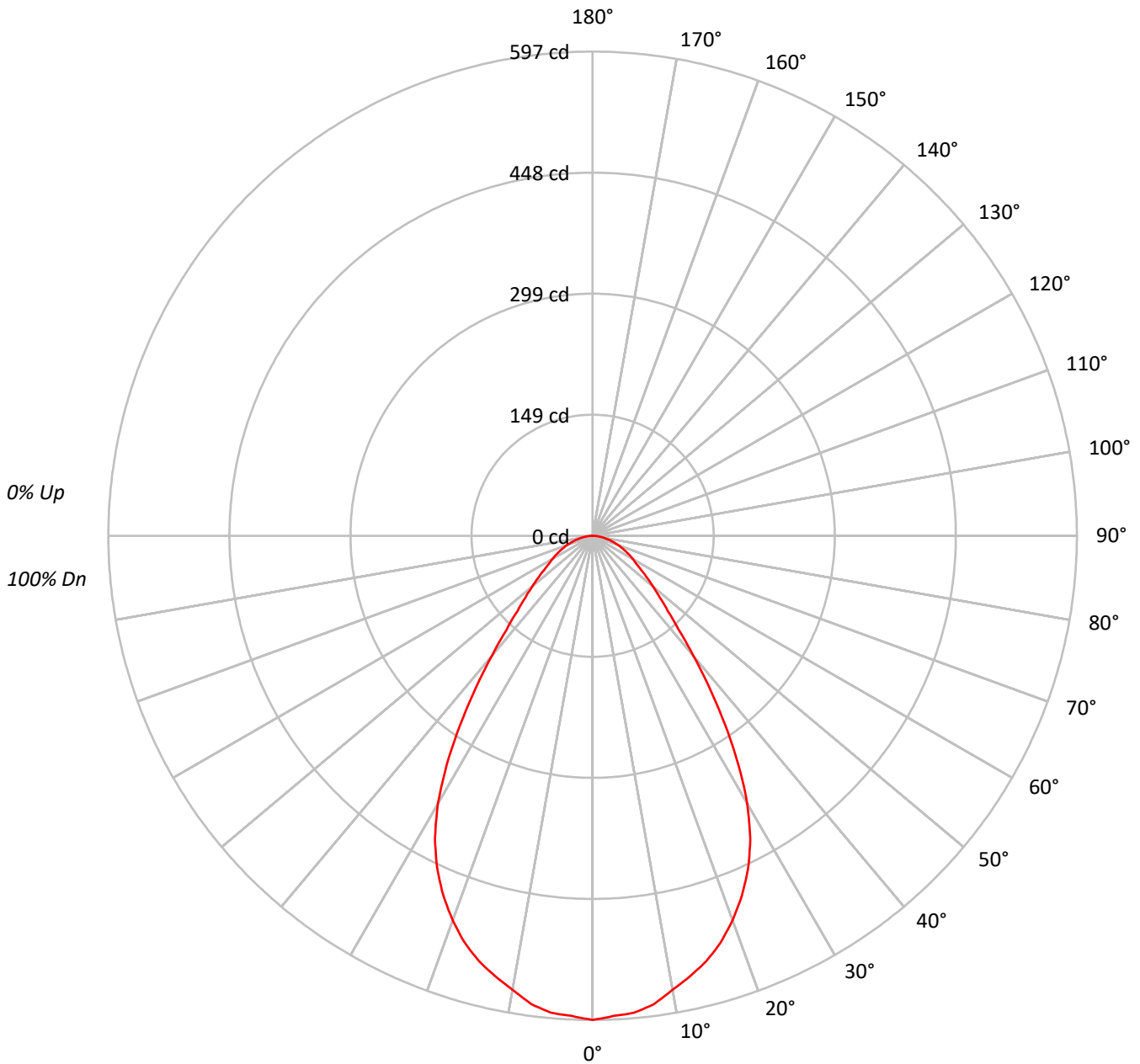
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73637
5°	73089
10°	71179
15°	69301
20°	66208
25°	61693
30°	54308
35°	42839
40°	31092
45°	22851
50°	18575
55°	15591
60°	14111
65°	12988
70°	12081
75°	11009
80°	9944
85°	8633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	6.6
10°-20°	152.2	18.2
20°-30°	206.4	24.6
30°-40°	177.1	21.1
40°-50°	104.6	12.5
50°-60°	66.3	7.9
60°-70°	44.5	5.3
70°-80°	24.6	2.9
80°-90°	6.9	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°	414.2	49.4
0°-40°	591.3	70.6
0°-60°	762.2	90.9
0°-90°	838.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	597	
5°	590	56
15°	543	152
25°	453	206
35°	284	177
45°	131	105
55°	72	66
65°	44	45
75°	23	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	597.0
2.5°	592.7
5°	590.3
7.5°	582.3
10°	568.3
12.5°	556.1
15°	542.7
17.5°	525.6
20°	504.4
22.5°	480.6
25°	453.3
27.5°	420.9
30°	381.3
32.5°	334.5
35°	284.5
37.5°	236.4
40°	193.1
42.5°	157.2
45°	131.0
47.5°	112.1
50°	96.8
52.5°	84.1
55°	72.5
57.5°	63.4
60°	57.2
62.5°	51.2
65°	44.5
67.5°	39.0
70°	33.5
72.5°	28.0
75°	23.1
77.5°	18.3
80°	14.0
82.5°	9.8
85°	6.1
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)