

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: P581534

Luminaire Tested: **HC407D010-HM40525950-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525950-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 885.3 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

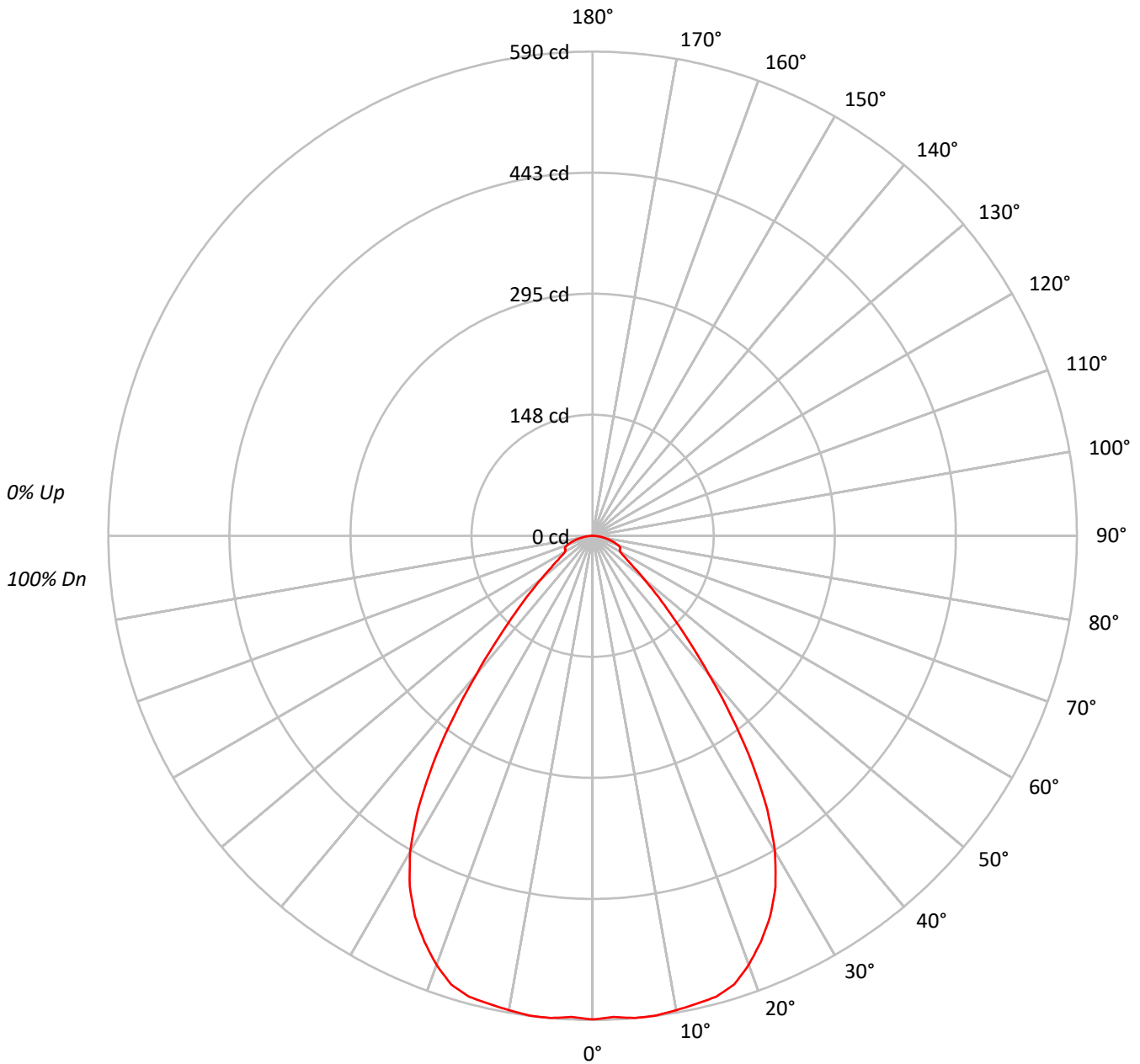
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72688
5°	73027
10°	73521
15°	74256
20°	73021
25°	69668
30°	63295
35°	51046
40°	35424
45°	23252
50°	15601
55°	11096
60°	9473
65°	10886
70°	11649
75°	11247
80°	10087
85°	9341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	6.3
10°-20°	163.4	18.5
20°-30°	233.4	26.4
30°-40°	208.5	23.6
40°-50°	106.9	12.1
50°-60°	48.6	5.5
60°-70°	36.2	4.1
70°-80°	24.7	2.8
80°-90°	7.3	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°	453.0	51.2
0°-40°	661.5	74.7
0°-60°	817.0	92.3
0°-90°	885.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	589	
5°	590	56
15°	582	163
25°	512	233
35°	339	208
45°	133	107
55°	52	49
65°	37	36
75°	24	25
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	589.3
2.5°	587.0
5°	589.8
7.5°	589.8
10°	587.0
12.5°	584.2
15°	581.5
17.5°	573.3
20°	556.3
22.5°	535.4
25°	511.9
27.5°	482.3
30°	444.4
32.5°	396.1
35°	339.0
37.5°	278.1
40°	220.0
42.5°	171.7
45°	133.3
47.5°	104.2
50°	81.3
52.5°	63.6
55°	51.6
57.5°	43.4
60°	38.4
62.5°	37.3
65°	37.3
67.5°	36.2
70°	32.3
72.5°	28.0
75°	23.6
77.5°	18.7
80°	14.2
82.5°	10.5
85°	6.6
87.5°	2.7
90°	0.0



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— 0°-180°







(END OF REPORT)