

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: P581426

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581426
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-HM40525830-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 922.9 lumens
Efficiency: N/A
Efficacy: 115.4 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

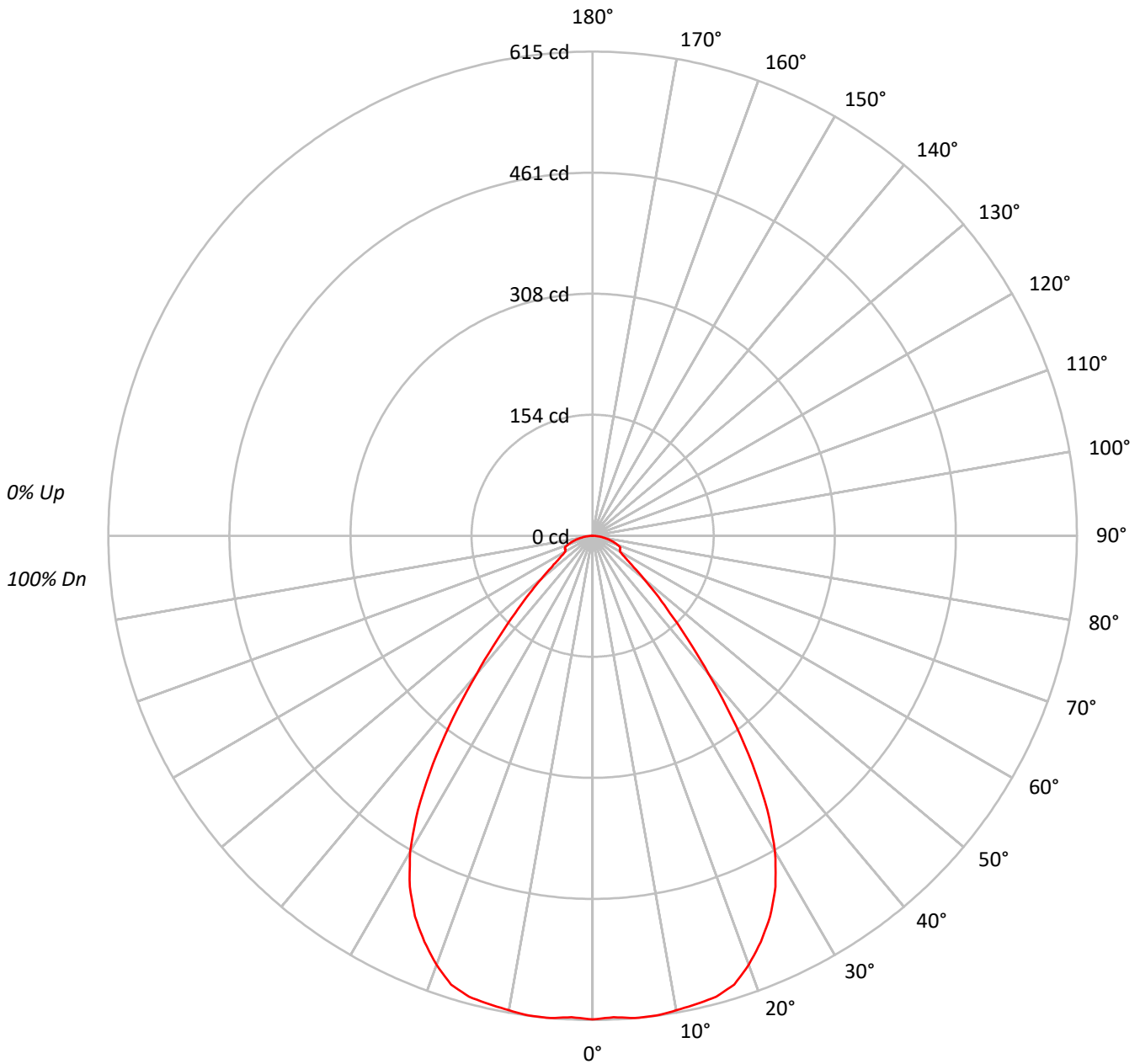
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	75771
5°	76135
10°	76652
15°	77423
20°	76119
25°	72621
30°	65987
35°	53229
40°	36921
45°	24229
50°	16253
55°	11548
60°	9892
65°	11353
70°	12190
75°	11724
80°	10584
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	6.3
10°-20°	170.3	18.5
20°-30°	243.3	26.4
30°-40°	217.4	23.6
40°-50°	111.5	12.1
50°-60°	50.7	5.5
60°-70°	37.8	4.1
70°-80°	25.7	2.8
80°-90°	7.6	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°	472.2	51.2
0°-40°	689.6	74.7
0°-60°	851.8	92.3
0°-90°	922.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	922.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	614	
5°	615	59
15°	606	170
25°	534	243
35°	354	217
45°	139	111
55°	54	51
65°	39	38
75°	25	26
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	614.3
2.5°	612.0
5°	614.9
7.5°	614.9
10°	612.0
12.5°	609.2
15°	606.3
17.5°	597.7
20°	579.9
22.5°	558.2
25°	533.6
27.5°	502.8
30°	463.3
32.5°	413.0
35°	353.5
37.5°	290.0
40°	229.3
42.5°	179.0
45°	138.9
47.5°	108.7
50°	84.7
52.5°	66.3
55°	53.7
57.5°	45.2
60°	40.1
62.5°	38.9
65°	38.9
67.5°	37.8
70°	33.8
72.5°	29.1
75°	24.6
77.5°	19.5
80°	14.9
82.5°	10.8
85°	6.8
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)