

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: P579757

Luminaire Tested: **HC410D010-HM40525927-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579757
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: HC410D010-HM40525927-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 903.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

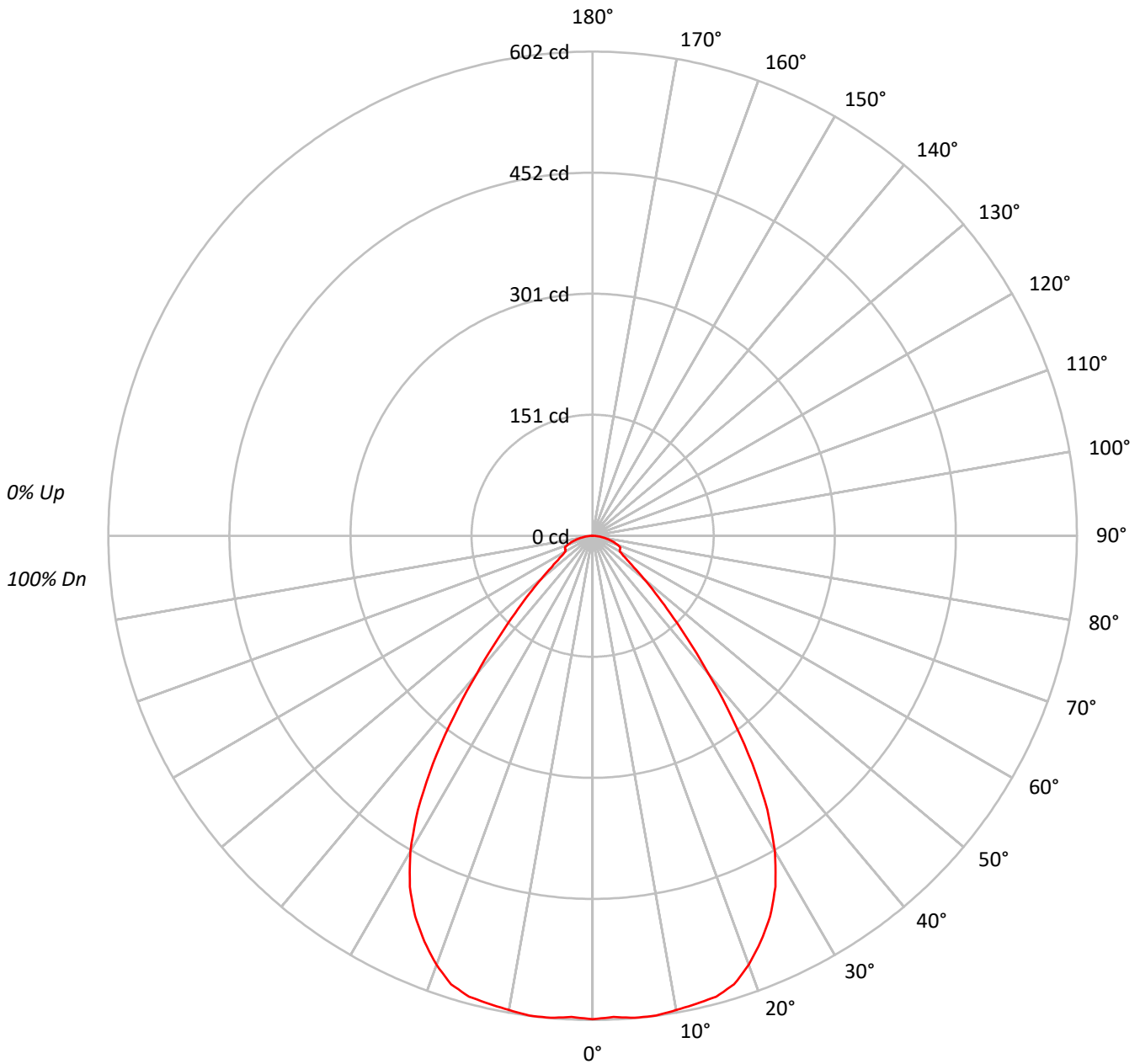
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	74143
5°	74501
10°	74999
15°	75750
20°	74491
25°	71056
30°	64562
35°	52070
40°	36132
45°	23723
50°	15889
55°	11311
60°	9646
65°	11091
70°	11901
75°	11438
80°	10371
85°	9482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	6.3
10°-20°	166.6	18.5
20°-30°	238.1	26.4
30°-40°	212.7	23.6
40°-50°	109.1	12.1
50°-60°	49.6	5.5
60°-70°	37.0	4.1
70°-80°	25.2	2.8
80°-90°	7.5	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°	462.1	51.2
0°-40°	674.8	74.7
0°-60°	833.4	92.3
0°-90°	903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	601	
5°	602	57
15°	593	167
25°	522	238
35°	346	213
45°	136	109
55°	53	50
65°	38	37
75°	24	25
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	601.1
2.5°	598.8
5°	601.7
7.5°	601.7
10°	598.8
12.5°	596.0
15°	593.2
17.5°	584.8
20°	567.5
22.5°	546.2
25°	522.1
27.5°	492.0
30°	453.3
32.5°	404.1
35°	345.8
37.5°	283.7
40°	224.4
42.5°	175.1
45°	136.0
47.5°	106.3
50°	82.8
52.5°	64.9
55°	52.6
57.5°	44.3
60°	39.1
62.5°	38.0
65°	38.0
67.5°	37.0
70°	33.0
72.5°	28.6
75°	24.0
77.5°	19.0
80°	14.6
82.5°	10.6
85°	6.7
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)