

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: P579775

Luminaire Tested: **HC410D010-HM40525930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579775
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-HM40525930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1004.8 lumens
Efficiency: N/A
Efficacy: 101.5 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

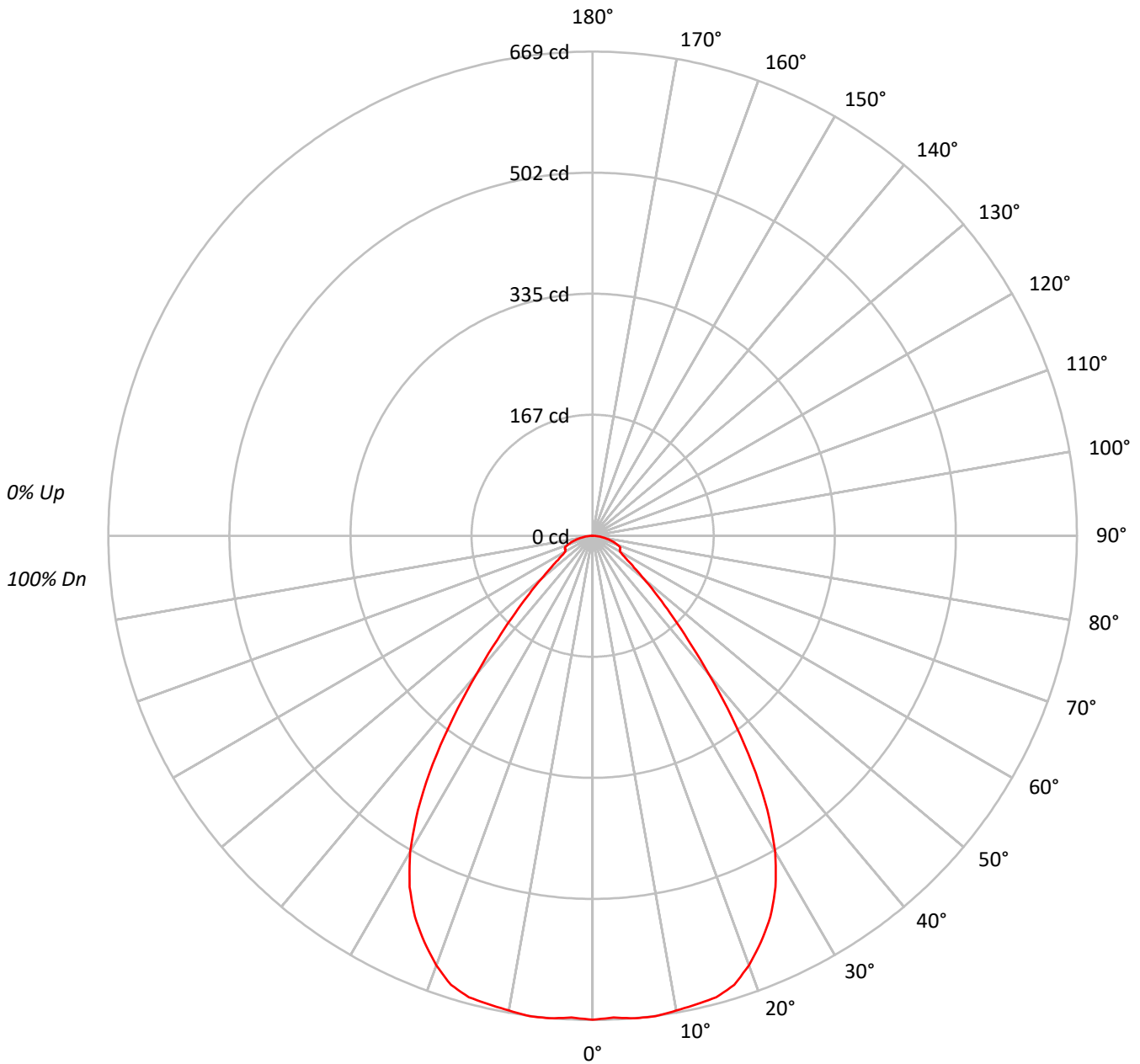
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	82481
5°	82883
10°	83441
15°	84280
20°	82879
25°	79059
30°	71840
35°	57942
40°	40206
45°	26410
50°	17692
55°	12580
60°	10756
65°	12346
70°	13271
75°	12724
80°	11507
85°	10614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	6.3
10°-20°	185.4	18.5
20°-30°	264.9	26.4
30°-40°	236.6	23.6
40°-50°	121.4	12.1
50°-60°	55.2	5.5
60°-70°	41.1	4.1
70°-80°	28.0	2.8
80°-90°	8.3	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°	514.1	51.2
0°-40°	750.7	74.7
0°-60°	927.4	92.3
0°-90°	1004.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1004.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	669	
5°	669	64
15°	660	185
25°	581	265
35°	385	237
45°	151	121
55°	58	55
65°	42	41
75°	27	28
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	668.7
2.5°	666.2
5°	669.4
7.5°	669.4
10°	666.2
12.5°	663.1
15°	660.0
17.5°	650.7
20°	631.4
22.5°	607.7
25°	580.9
27.5°	547.3
30°	504.4
32.5°	449.5
35°	384.8
37.5°	315.7
40°	249.7
42.5°	194.9
45°	151.4
47.5°	118.4
50°	92.2
52.5°	72.3
55°	58.5
57.5°	49.2
60°	43.6
62.5°	42.3
65°	42.3
67.5°	41.1
70°	36.8
72.5°	31.8
75°	26.7
77.5°	21.2
80°	16.2
82.5°	11.8
85°	7.5
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)