

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: P579730

Luminaire Tested: **HC410D010-HM40525835-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579730
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: HC410D010-HM40525835-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1010.4 lumens
Efficiency: N/A
Efficacy: 102.1 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

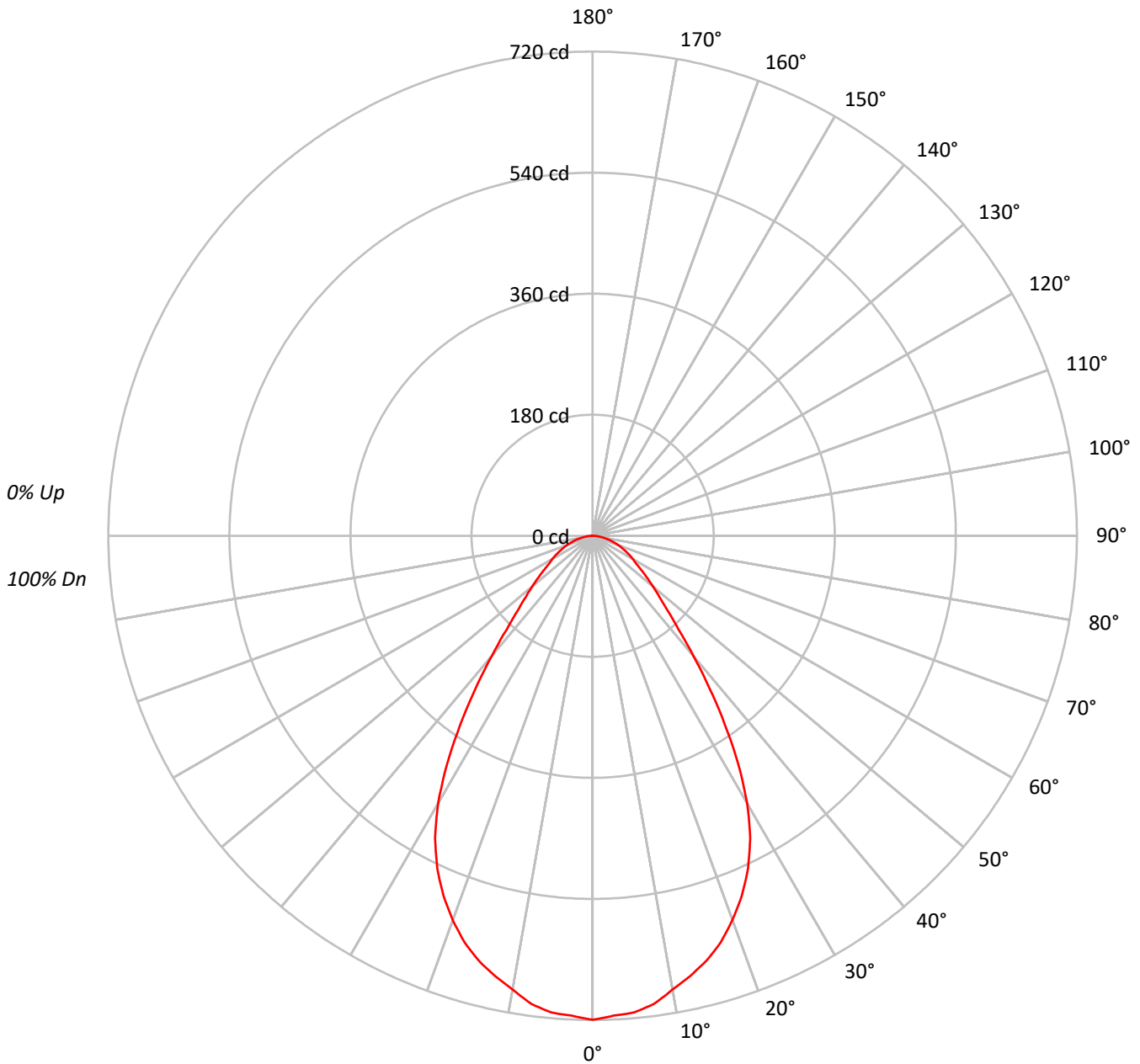
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88772
5°	88108
10°	85808
15°	83539
20°	79807
25°	74363
30°	65460
35°	51633
40°	37468
45°	27526
50°	22413
55°	18795
60°	17046
65°	15644
70°	14570
75°	13296
80°	11933
85°	10473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	6.6
10°-20°	183.5	18.2
20°-30°	248.8	24.6
30°-40°	213.5	21.1
40°-50°	126.0	12.5
50°-60°	79.9	7.9
60°-70°	53.7	5.3
70°-80°	29.6	2.9
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°	499.4	49.4
0°-40°	712.8	70.6
0°-60°	918.8	90.9
0°-90°	1010.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1010.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	720	
5°	712	67
15°	654	184
25°	546	249
35°	343	213
45°	158	126
55°	87	80
65°	54	54
75°	28	30
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	719.7
2.5°	714.4
5°	711.6
7.5°	702.0
10°	685.1
12.5°	670.4
15°	654.2
17.5°	633.8
20°	608.0
22.5°	579.4
25°	546.4
27.5°	507.4
30°	459.6
32.5°	403.1
35°	342.9
37.5°	285.0
40°	232.7
42.5°	189.5
45°	157.8
47.5°	135.1
50°	116.8
52.5°	101.3
55°	87.4
57.5°	76.4
60°	69.1
62.5°	61.7
65°	53.6
67.5°	47.0
70°	40.4
72.5°	33.8
75°	27.9
77.5°	22.1
80°	16.8
82.5°	11.7
85°	7.4
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)