

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: P592612

Luminaire Tested: **HC410D010-HM40525850-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592612
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-HM40525850-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1038.2 lumens
Efficiency: N/A
Efficacy: 104.9 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

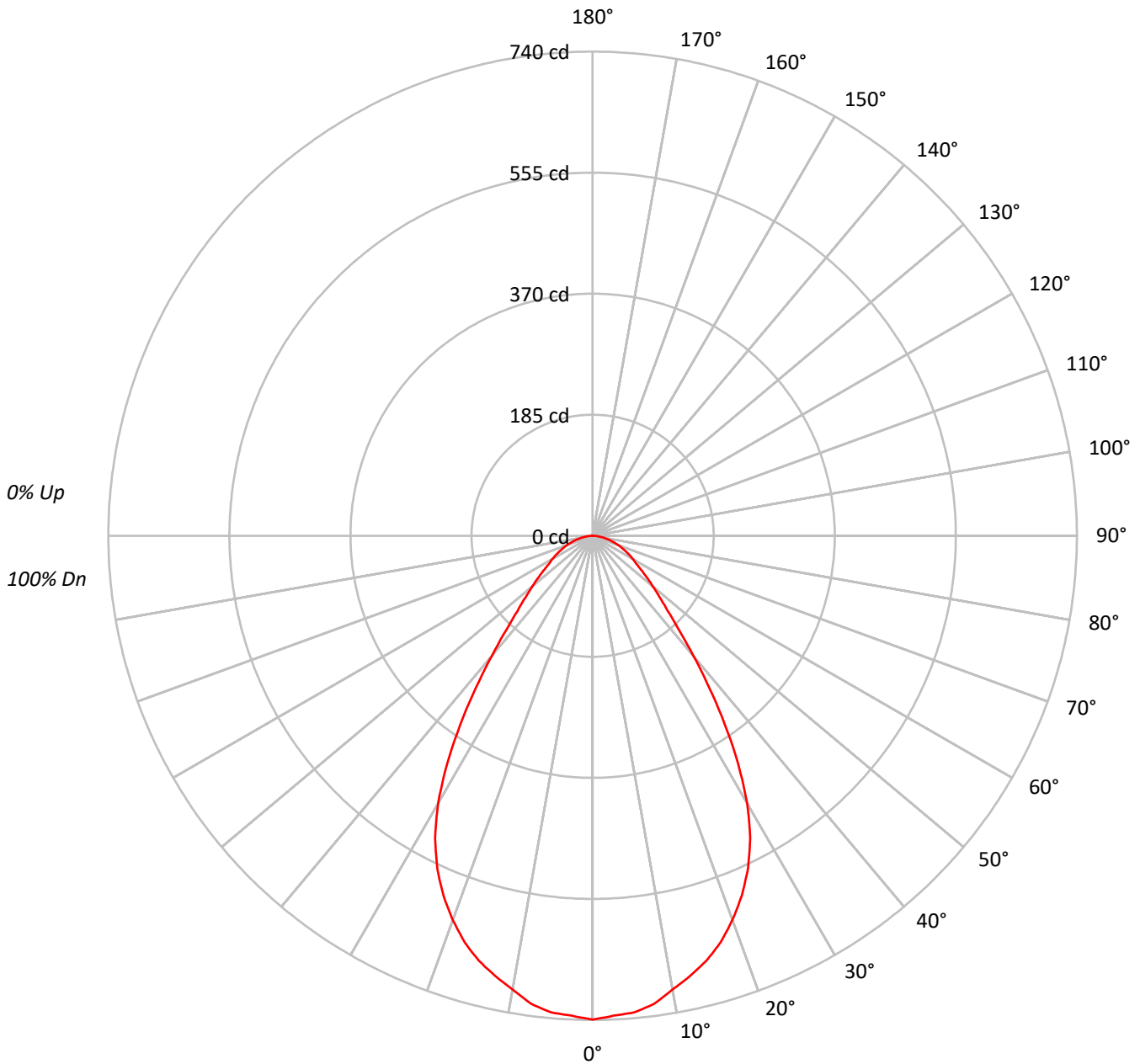
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	91214
5°	90535
10°	88175
15°	85851
20°	82012
25°	76405
30°	67283
35°	53063
40°	38515
45°	28311
50°	23008
55°	19311
60°	17490
65°	16082
70°	14966
75°	13678
80°	12360
85°	10614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	6.6
10°-20°	188.6	18.2
20°-30°	255.6	24.6
30°-40°	219.4	21.1
40°-50°	129.5	12.5
50°-60°	82.1	7.9
60°-70°	55.2	5.3
70°-80°	30.4	2.9
80°-90°	8.5	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°	513.2	49.4
0°-40°	732.5	70.6
0°-60°	944.1	90.9
0°-90°	1038.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	740	
5°	731	69
15°	672	189
25°	561	256
35°	352	219
45°	162	130
55°	90	82
65°	55	55
75°	29	30
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	739.5
2.5°	734.2
5°	731.2
7.5°	721.4
10°	704.0
12.5°	688.9
15°	672.3
17.5°	651.2
20°	624.8
22.5°	595.4
25°	561.4
27.5°	521.4
30°	472.4
32.5°	414.2
35°	352.4
37.5°	292.8
40°	239.2
42.5°	194.7
45°	162.3
47.5°	138.8
50°	119.9
52.5°	104.1
55°	89.8
57.5°	78.5
60°	70.9
62.5°	63.4
65°	55.1
67.5°	48.3
70°	41.5
72.5°	34.7
75°	28.7
77.5°	22.6
80°	17.4
82.5°	12.1
85°	7.5
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)