

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: P579694

Luminaire Tested: **HC410D010-HM40525827-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579694  
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-HM40525827-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 899.9 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

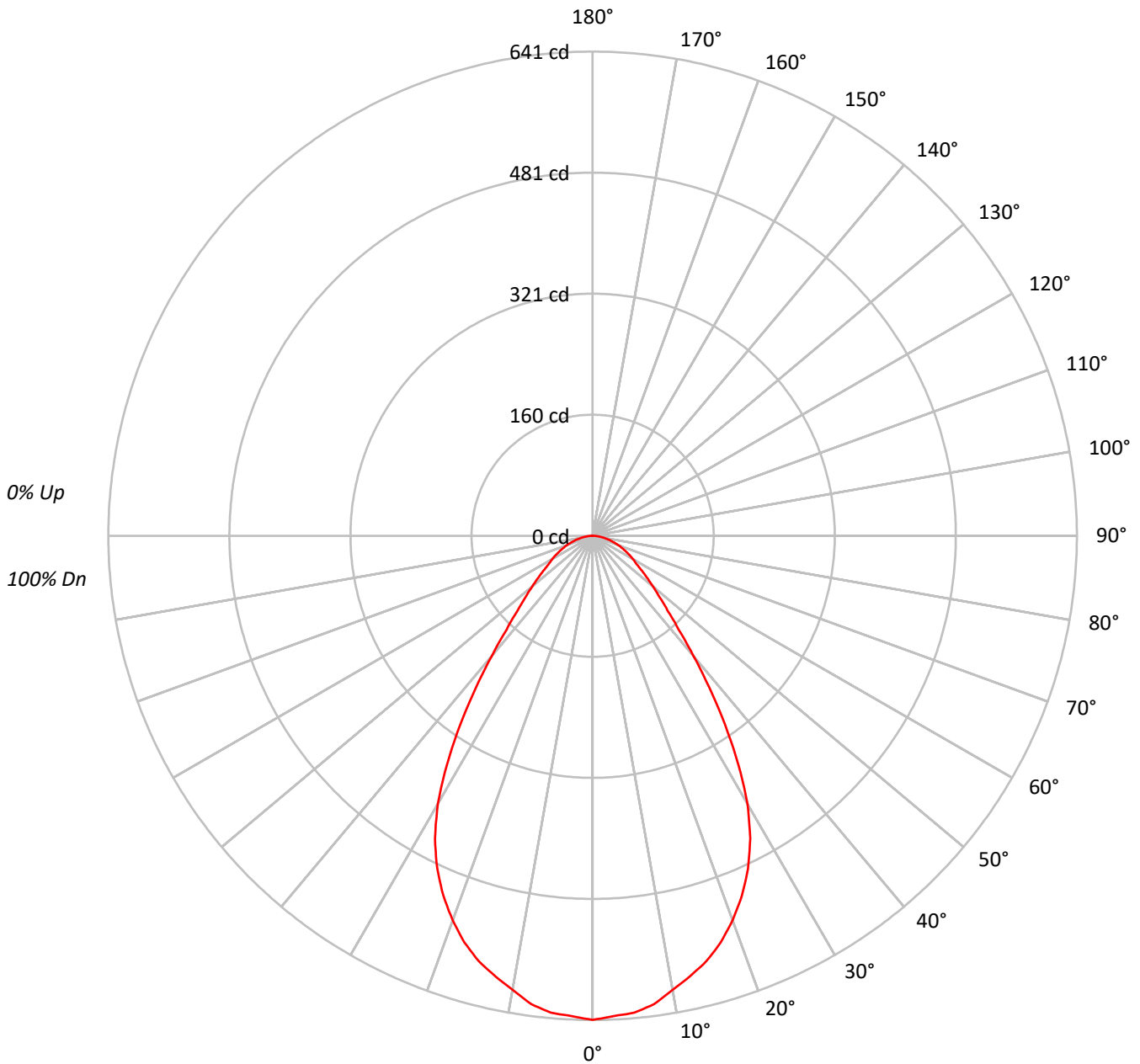
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	79052
5°	78475
10°	76427
15°	74422
20°	71091
25°	66225
30°	58324
35°	45986
40°	33379
45°	24543
50°	19957
55°	16731
60°	15172
65°	13951
70°	12983
75°	11819
80°	10655
85°	9199



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	6.6
10°-20°	163.5	18.2
20°-30°	221.6	24.6
30°-40°	190.1	21.1
40°-50°	112.3	12.5
50°-60°	71.1	7.9
60°-70°	47.8	5.3
70°-80°	26.3	2.9
80°-90°	7.4	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°	444.8	49.4
0°-40°	634.9	70.6
0°-60°	818.4	90.9
0°-90°	899.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	899.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	641	
5°	634	60
15°	583	163
25°	487	222
35°	305	190
45°	141	112
55°	78	71
65°	48	48
75°	25	26
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	640.9
2.5°	636.4
5°	633.8
7.5°	625.3
10°	610.2
12.5°	597.1
15°	582.8
17.5°	564.4
20°	541.6
22.5°	516.1
25°	486.6
27.5°	451.9
30°	409.5
32.5°	359.0
35°	305.4
37.5°	253.8
40°	207.3
42.5°	168.8
45°	140.7
47.5°	120.4
50°	104.0
52.5°	90.2
55°	77.8
57.5°	68.1
60°	61.5
62.5°	55.0
65°	47.8
67.5°	41.9
70°	36.0
72.5°	30.0
75°	24.8
77.5°	19.6
80°	15.0
82.5°	10.5
85°	6.5
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)