

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: P579766

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579766  
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-HM40525927-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 770.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 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

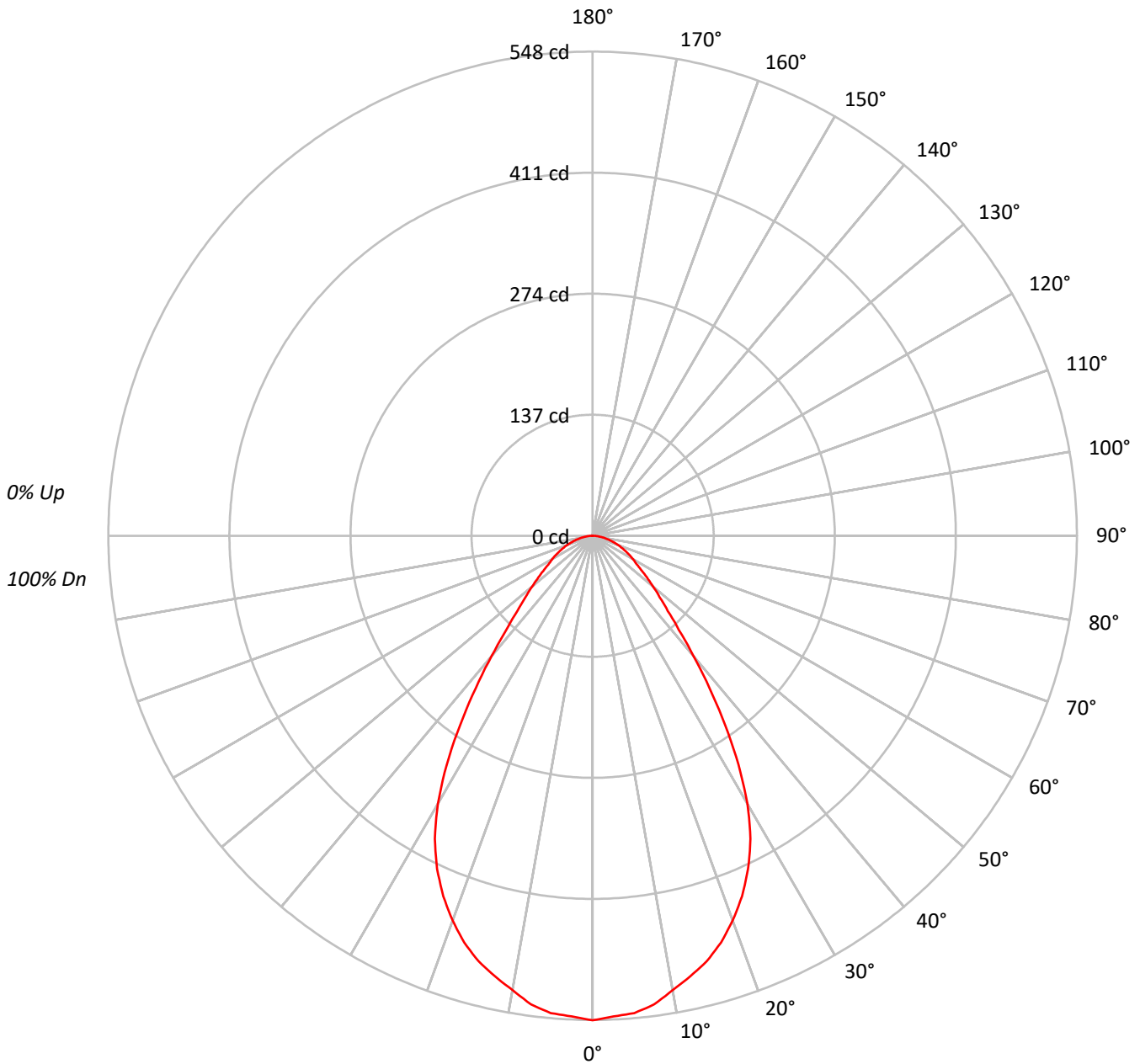
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	67643
5°	67146
10°	65392
15°	63670
20°	60814
25°	56657
30°	49892
35°	39346
40°	28564
45°	20985
50°	17078
55°	14322
60°	12976
65°	11937
70°	11072
75°	10151
80°	9163
85°	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	6.6
10°-20°	139.8	18.2
20°-30°	189.6	24.6
30°-40°	162.7	21.1
40°-50°	96.1	12.5
50°-60°	60.9	7.9
60°-70°	40.9	5.3
70°-80°	22.6	2.9
80°-90°	6.4	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°	380.5	49.4
0°-40°	543.2	70.5
0°-60°	700.2	90.9
0°-90°	770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	548	
5°	542	51
15°	499	140
25°	416	190
35°	261	163
45°	120	96
55°	67	61
65°	41	41
75°	21	23
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	548.4
2.5°	544.4
5°	542.3
7.5°	535.0
10°	522.1
12.5°	510.8
15°	498.6
17.5°	482.9
20°	463.3
22.5°	441.5
25°	416.3
27.5°	386.7
30°	350.3
32.5°	307.3
35°	261.3
37.5°	217.1
40°	177.4
42.5°	144.4
45°	120.3
47.5°	103.0
50°	89.0
52.5°	77.3
55°	66.6
57.5°	58.2
60°	52.6
62.5°	47.0
65°	40.9
67.5°	35.8
70°	30.7
72.5°	25.7
75°	21.3
77.5°	16.8
80°	12.9
82.5°	9.0
85°	5.6
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)