

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: P581435

Luminaire Tested: **HC407D010-HM40525830-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581435  
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: HC407D010-HM40525830-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 786.9 lumens  
Efficiency: N/A  
Efficacy: 98.4 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

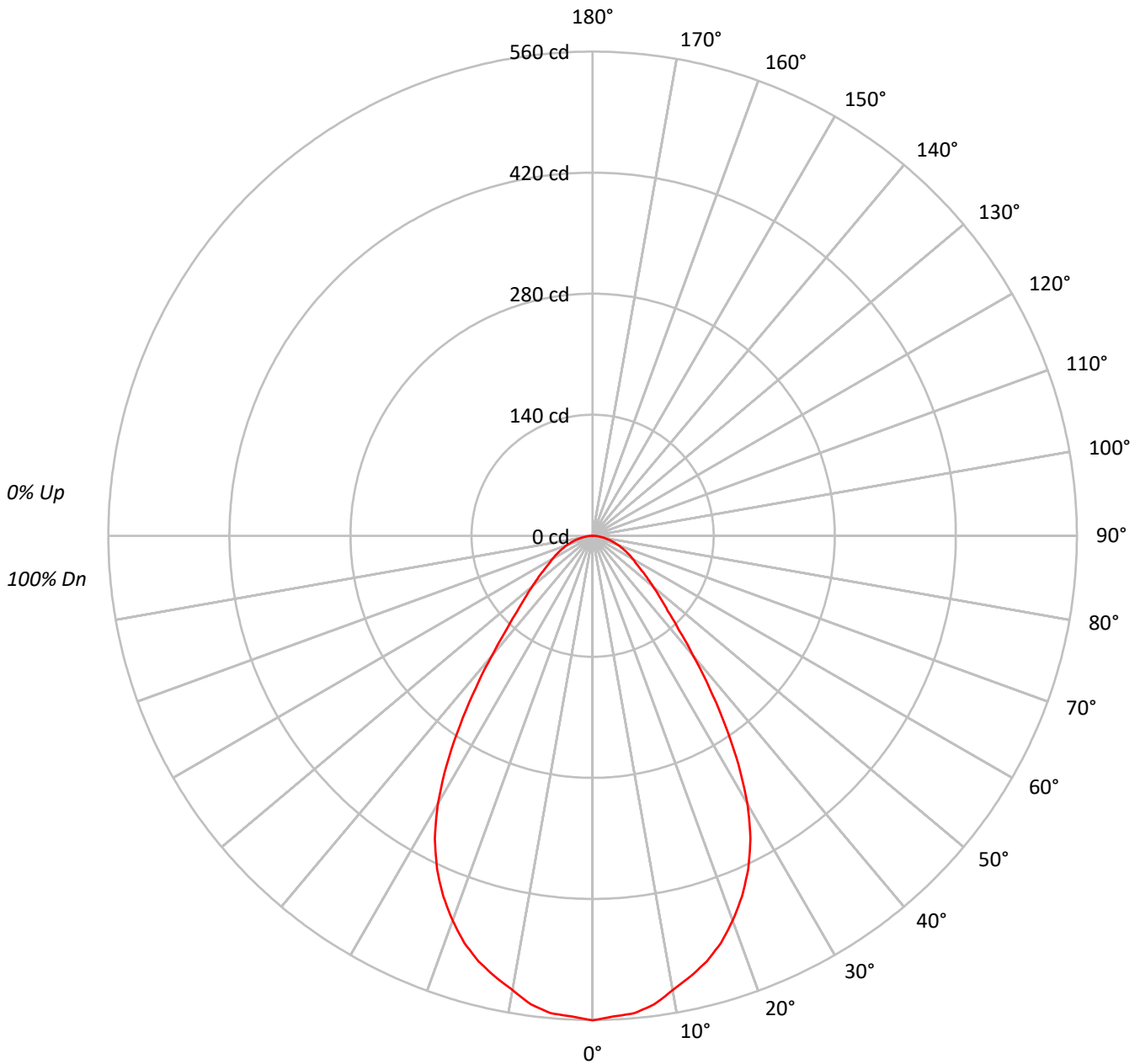
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	69135
5°	68619
10°	66833
15°	65074
20°	62152
25°	57909
30°	50989
35°	40219
40°	29192
45°	21438
50°	17443
55°	14645
60°	13247
65°	12200
70°	11324
75°	10342
80°	9376
85°	8067



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	6.6
10°-20°	142.9	18.2
20°-30°	193.7	24.6
30°-40°	166.3	21.1
40°-50°	98.2	12.5
50°-60°	62.2	7.9
60°-70°	41.8	5.3
70°-80°	23.1	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°	388.9	49.4
0°-40°	555.2	70.6
0°-60°	715.6	90.9
0°-90°	786.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	560	
5°	554	52
15°	510	143
25°	426	194
35°	267	166
45°	123	98
55°	68	62
65°	42	42
75°	22	23
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	560.5
2.5°	556.5
5°	554.2
7.5°	546.7
10°	533.6
12.5°	522.1
15°	509.6
17.5°	493.6
20°	473.5
22.5°	451.2
25°	425.5
27.5°	395.2
30°	358.0
32.5°	314.0
35°	267.1
37.5°	221.9
40°	181.3
42.5°	147.6
45°	122.9
47.5°	105.3
50°	90.9
52.5°	79.0
55°	68.1
57.5°	59.5
60°	53.7
62.5°	48.0
65°	41.8
67.5°	36.6
70°	31.4
72.5°	26.3
75°	21.7
77.5°	17.2
80°	13.2
82.5°	9.1
85°	5.7
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)