

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: P580984

Luminaire Tested: **HC405D010-HM40525827-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC405D010-HM40525827-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 576.5 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

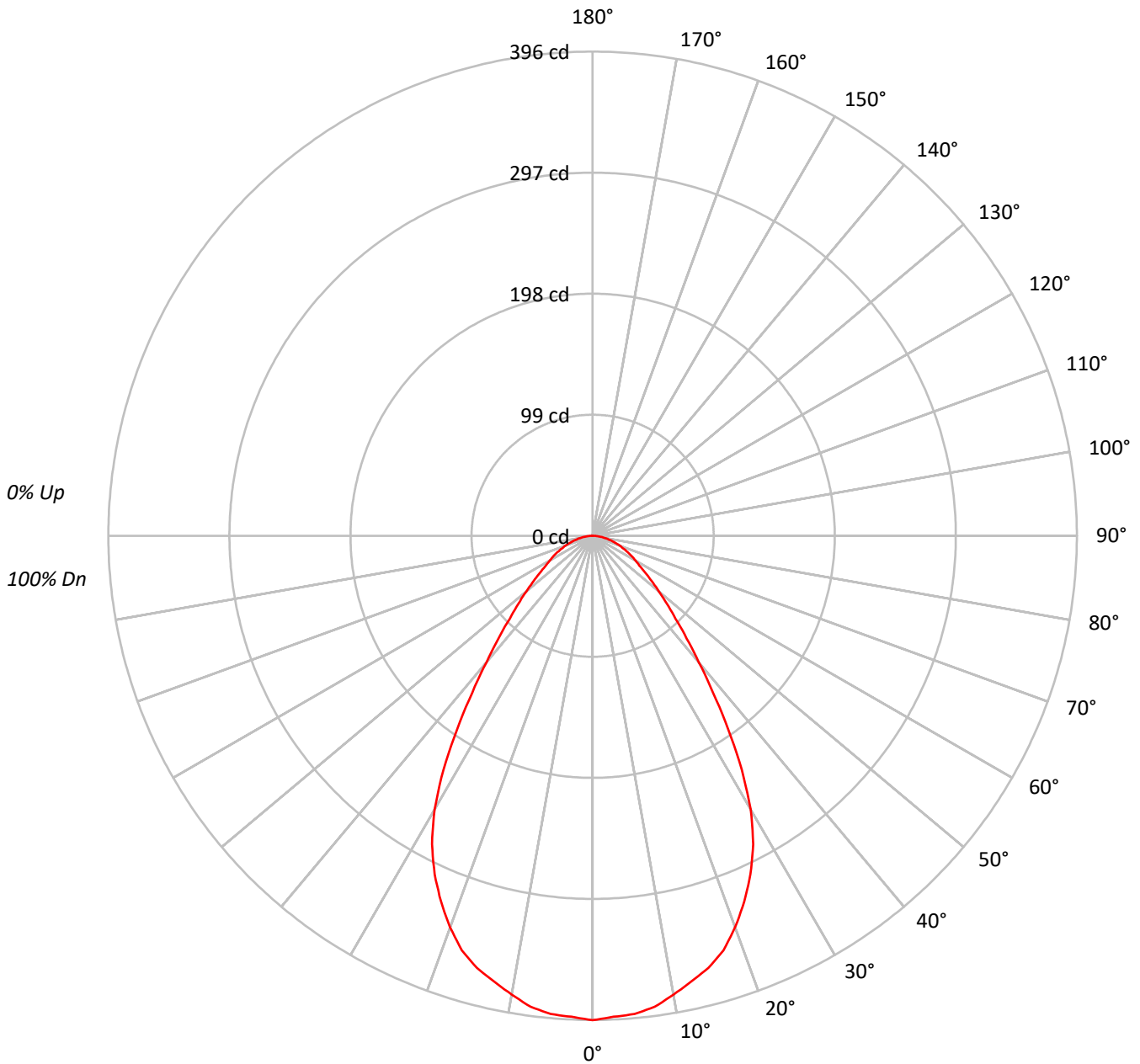
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	48870
5°	48610
10°	47720
15°	46724
20°	44721
25°	41578
30°	36803
35°	29061
40°	21737
45°	16729
50°	13567
55°	11247
60°	9942
65°	9223
70°	8511
75°	7768
80°	7103
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.1	6.4
10°-20°	102.6	17.8
20°-30°	139.3	24.2
30°-40°	120.7	20.9
40°-50°	75.8	13.1
50°-60°	47.7	8.3
60°-70°	31.3	5.4
70°-80°	17.2	3.0
80°-90°	4.7	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°	279.0	48.4
0°-40°	399.7	69.3
0°-60°	523.2	90.8
0°-90°	576.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	576.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	396	
5°	393	37
15°	366	103
25°	306	139
35°	193	121
45°	96	76
55°	52	48
65°	32	31
75°	16	17
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	396.2
2.5°	393.8
5°	392.6
7.5°	388.6
10°	381.0
12.5°	373.4
15°	365.9
17.5°	355.5
20°	340.7
22.5°	323.9
25°	305.5
27.5°	284.4
30°	258.4
32.5°	226.9
35°	193.0
37.5°	161.7
40°	135.0
42.5°	113.8
45°	95.9
47.5°	82.3
50°	70.7
52.5°	60.7
55°	52.3
57.5°	45.2
60°	40.3
62.5°	36.0
65°	31.6
67.5°	27.1
70°	23.6
72.5°	19.5
75°	16.3
77.5°	12.8
80°	10.0
82.5°	6.8
85°	4.0
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)