

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: P592702

Luminaire Tested: **HC425D010-HM40525850-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592702  
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: HC425D010-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: 2343.6 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

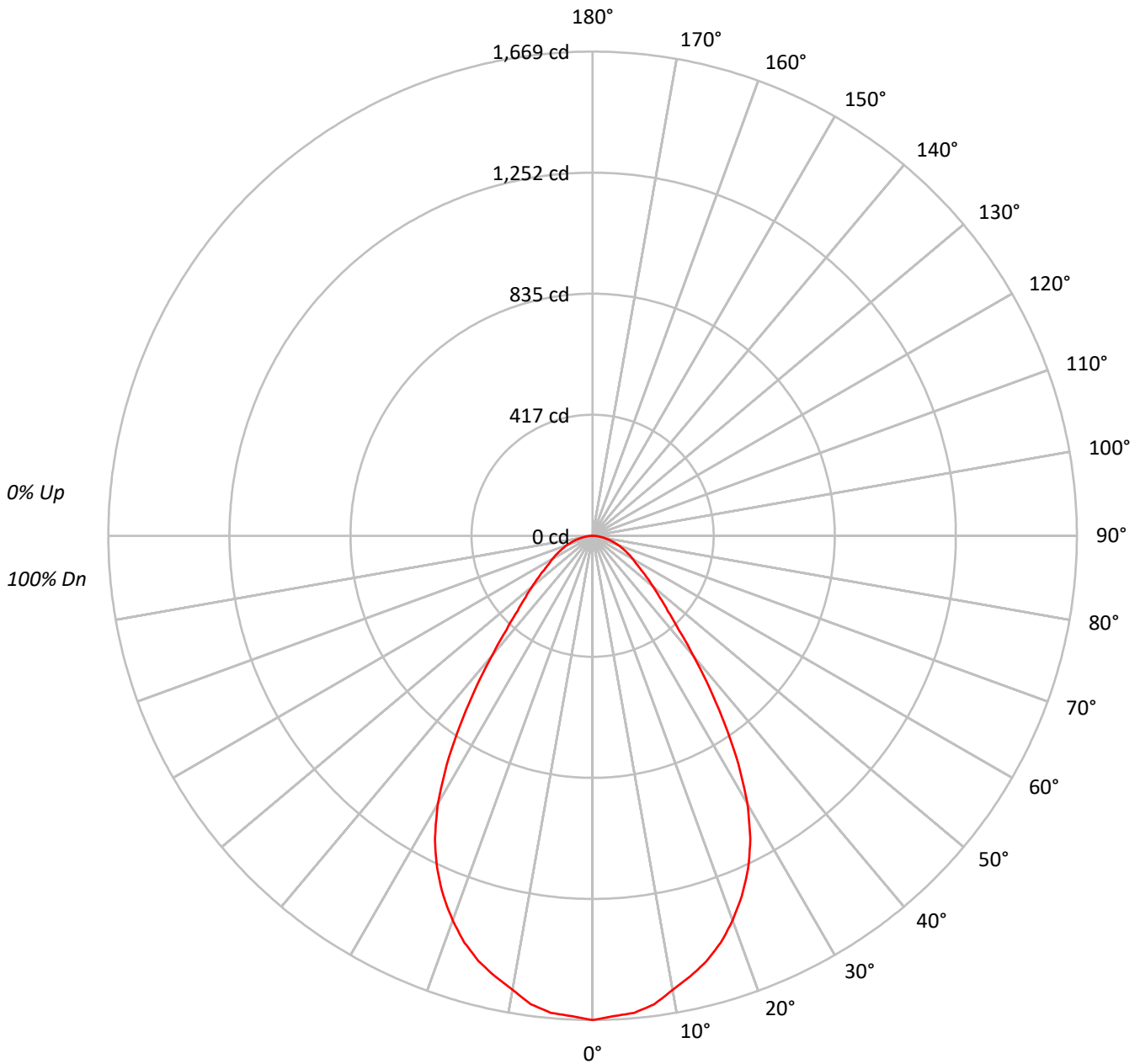
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	205901
5°	204372
10°	199045
15°	193805
20°	185118
25°	172476
30°	151870
35°	119784
40°	86949
45°	63879
50°	51964
55°	43590
60°	39495
65°	36278
70°	33792
75°	30834
80°	27845
85°	24059



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	6.6
10°-20°	425.7	18.2
20°-30°	577.1	24.6
30°-40°	495.2	21.1
40°-50°	292.4	12.5
50°-60°	185.3	7.9
60°-70°	124.5	5.3
70°-80°	68.7	2.9
80°-90°	19.2	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°	1158.4	49.4
0°-40°	1653.6	70.6
0°-60°	2131.2	90.9
0°-90°	2343.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1669	
5°	1651	156
15°	1518	426
25°	1267	577
35°	796	495
45°	366	292
55°	203	185
65°	124	124
75°	65	69
85°	17	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1669.3
2.5°	1657.4
5°	1650.6
7.5°	1628.5
10°	1589.2
12.5°	1555.2
15°	1517.7
17.5°	1470.0
20°	1410.3
22.5°	1344.0
25°	1267.3
27.5°	1177.0
30°	1066.3
32.5°	935.2
35°	795.5
37.5°	660.9
40°	540.0
42.5°	439.5
45°	366.2
47.5°	313.4
50°	270.8
52.5°	235.1
55°	202.7
57.5°	177.1
60°	160.1
62.5°	143.0
65°	124.3
67.5°	109.1
70°	93.7
72.5°	78.4
75°	64.7
77.5°	51.1
80°	39.2
82.5°	27.2
85°	17.0
87.5°	6.8
90°	0.0



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— 0°-180°







(END OF REPORT)