

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: P580229

Luminaire Tested: **HC425D010-HM40525935-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580229  
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-HM40525935-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2036.7 lumens  
Efficiency: N/A  
Efficacy: 76.0 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

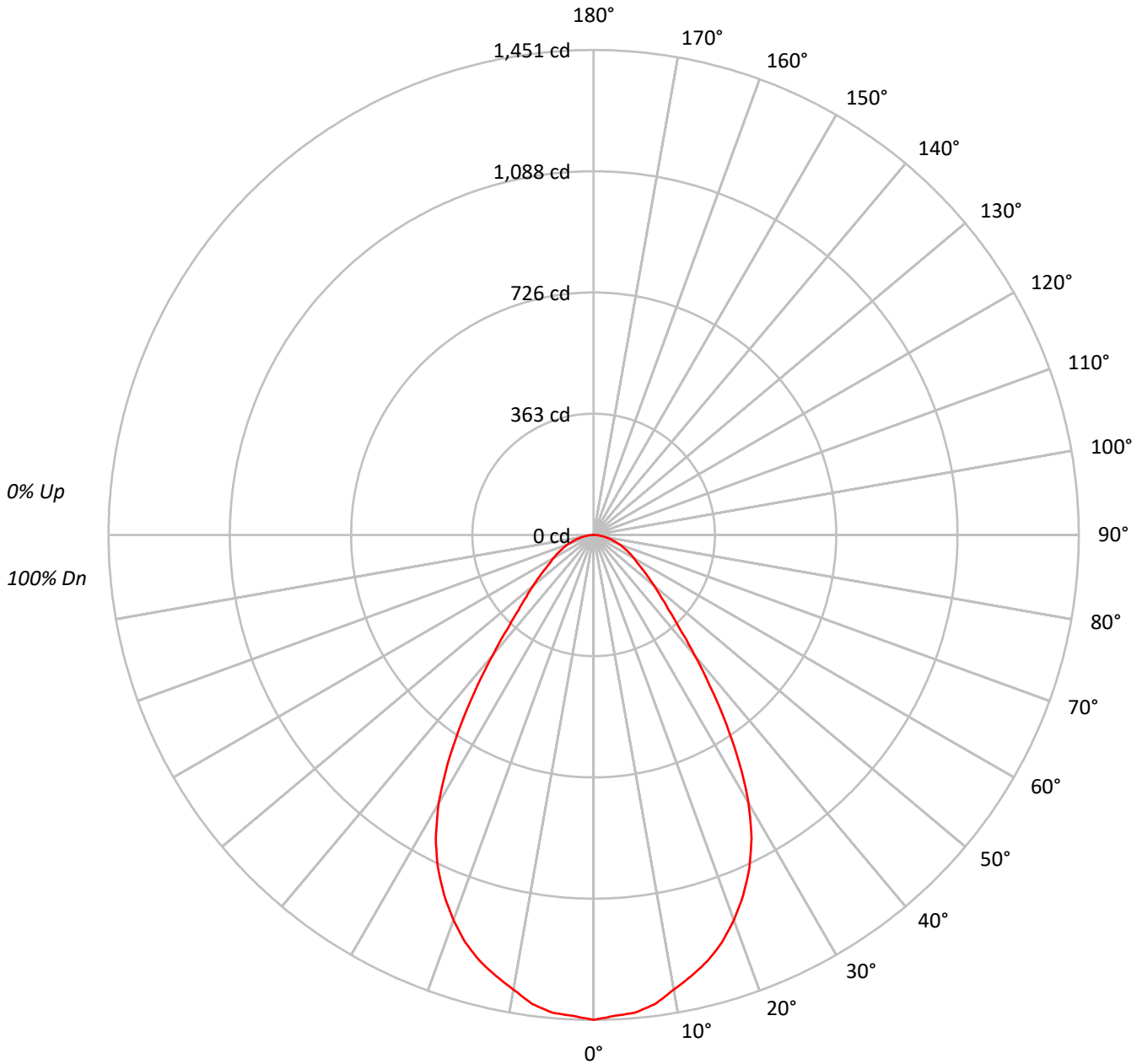
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	178950
5°	177603
10°	172981
15°	168432
20°	160901
25°	149883
30°	131987
35°	104094
40°	75549
45°	55523
50°	45171
55°	37870
60°	34339
65°	31521
70°	29356
75°	26783
80°	24222
85°	20945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.2	6.6
10°-20°	370.0	18.2
20°-30°	501.5	24.6
30°-40°	430.3	21.1
40°-50°	254.1	12.5
50°-60°	161.0	7.9
60°-70°	108.1	5.3
70°-80°	59.7	2.9
80°-90°	16.7	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°	1006.7	49.4
0°-40°	1437.0	70.6
0°-60°	1852.1	90.9
0°-90°	2036.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2036.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1451	
5°	1434	135
15°	1319	370
25°	1101	502
35°	691	430
45°	318	254
55°	176	161
65°	108	108
75°	56	60
85°	15	17
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1450.8
2.5°	1440.4
5°	1434.4
7.5°	1415.2
10°	1381.1
12.5°	1351.5
15°	1319.0
17.5°	1277.6
20°	1225.8
22.5°	1168.0
25°	1101.3
27.5°	1022.9
30°	926.7
32.5°	812.7
35°	691.3
37.5°	574.3
40°	469.2
42.5°	381.9
45°	318.3
47.5°	272.4
50°	235.4
52.5°	204.2
55°	176.1
57.5°	154.0
60°	139.2
62.5°	124.3
65°	108.0
67.5°	94.7
70°	81.4
72.5°	68.1
75°	56.2
77.5°	44.4
80°	34.1
82.5°	23.7
85°	14.8
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)