

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: P580204

Luminaire Tested: **HC425D010-HM40525930-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC425D010-HM40525930-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1950.5 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

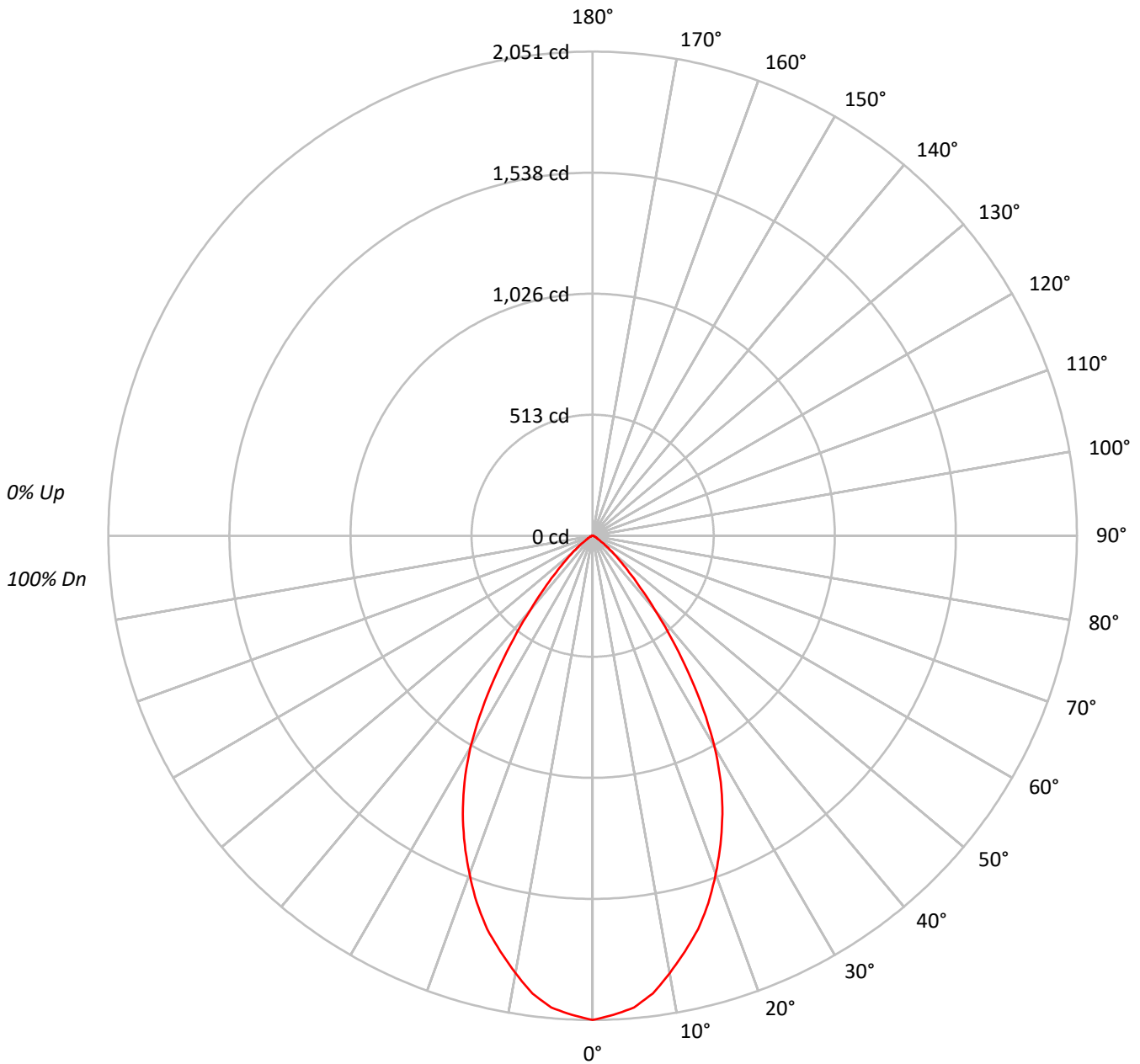
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

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

	0°
0°	252970
5°	248376
10°	235592
15°	220290
20°	200069
25°	177035
30°	147256
35°	106187
40°	66274
45°	38219
50°	21549
55°	10279
60°	5896
65°	4524
70°	3065
75°	2002
80°	1989
85°	1981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.5	9.6
10°-20°	481.2	24.7
20°-30°	591.9	30.3
30°-40°	439.6	22.5
40°-50°	178.7	9.2
50°-60°	49.5	2.5
60°-70°	15.4	0.8
70°-80°	5.2	0.3
80°-90°	1.5	0.1
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°	1260.6	64.6
0°-40°	1700.2	87.2
0°-60°	1928.4	98.9
0°-90°	1950.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1950.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2051	
5°	2006	188
15°	1725	481
25°	1301	592
35°	705	440
45°	219	179
55°	48	49
65°	16	15
75°	4	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2050.9
2.5°	2031.3
5°	2006.0
7.5°	1955.4
10°	1881.0
12.5°	1803.7
15°	1725.1
17.5°	1631.0
20°	1524.2
22.5°	1416.0
25°	1300.8
27.5°	1175.9
30°	1033.9
32.5°	872.4
35°	705.2
37.5°	547.9
40°	411.6
42.5°	300.7
45°	219.1
47.5°	157.4
50°	112.3
52.5°	77.2
55°	47.8
57.5°	30.9
60°	23.9
62.5°	19.6
65°	15.5
67.5°	11.3
70°	8.5
72.5°	7.0
75°	4.2
77.5°	2.8
80°	2.8
82.5°	1.4
85°	1.4
87.5°	1.4
90°	0.0



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— 0°-180°







(END OF REPORT)