

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: P580330

Luminaire Tested: **HC430D010-HM43040927-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580330  
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: HC430D010-HM43040927-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2175.3 lumens  
Efficiency: N/A  
Efficacy: 77.7 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

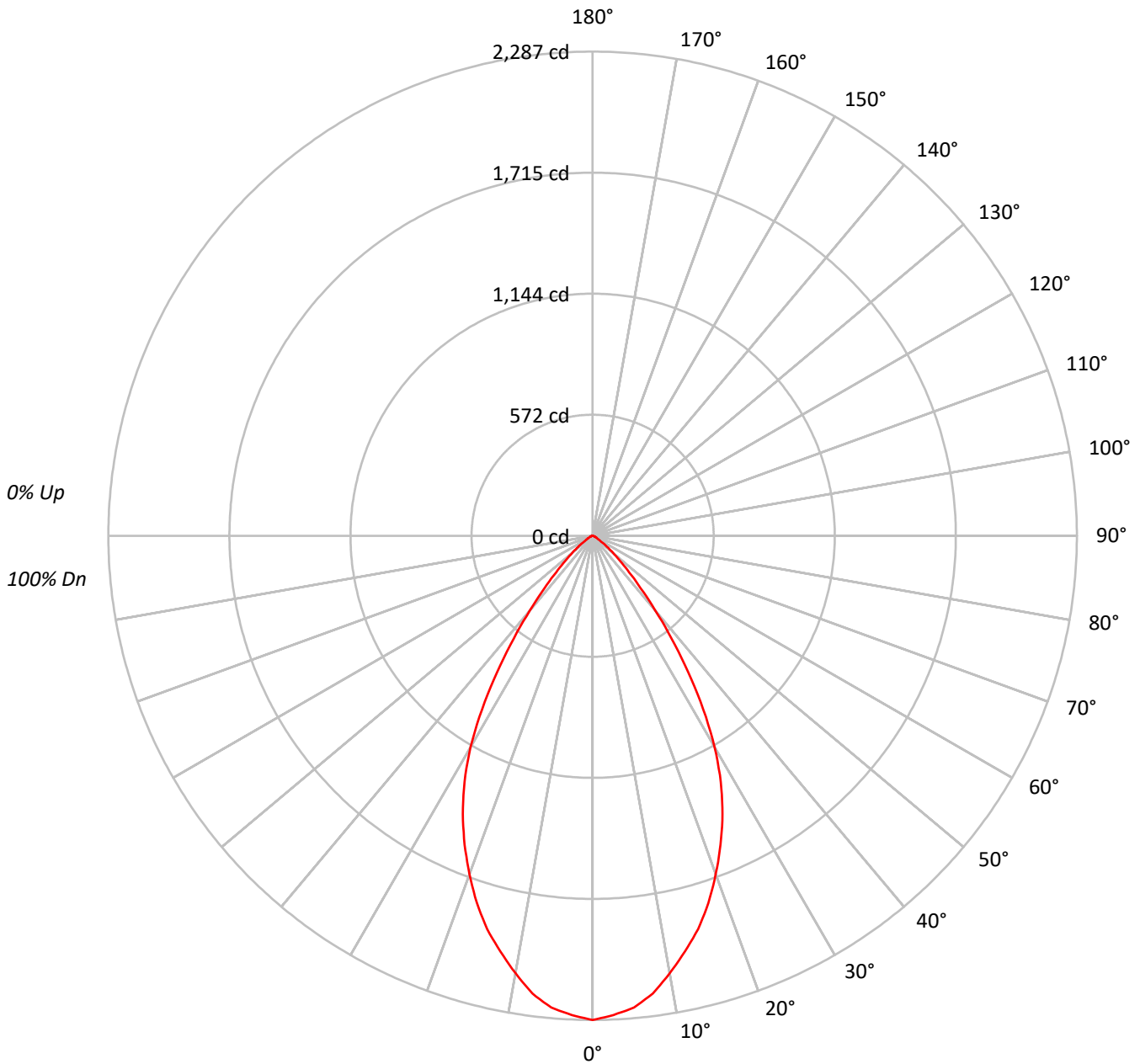
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	282141
5°	277015
10°	262759
15°	245676
20°	223132
25°	197436
30°	164219
35°	118414
40°	73923
45°	42632
50°	24044
55°	11440
60°	6562
65°	5049
70°	3390
75°	2240
80°	2273
85°	2264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.1	9.6
10°-20°	536.7	24.7
20°-30°	660.1	30.3
30°-40°	490.2	22.5
40°-50°	199.3	9.2
50°-60°	55.2	2.5
60°-70°	17.2	0.8
70°-80°	5.8	0.3
80°-90°	1.7	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°	1405.9	64.6
0°-40°	1896.1	87.2
0°-60°	2150.6	98.9
0°-90°	2175.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2175.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2287	
5°	2237	209
15°	1924	537
25°	1451	660
35°	786	490
45°	244	199
55°	53	55
65°	17	17
75°	5	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2287.4
2.5°	2265.5
5°	2237.3
7.5°	2180.9
10°	2097.9
12.5°	2011.7
15°	1923.9
17.5°	1818.9
20°	1699.9
22.5°	1579.2
25°	1450.7
27.5°	1311.3
30°	1153.0
32.5°	972.9
35°	786.4
37.5°	611.0
40°	459.1
42.5°	335.2
45°	244.4
47.5°	175.5
50°	125.3
52.5°	86.2
55°	53.2
57.5°	34.5
60°	26.6
62.5°	21.9
65°	17.3
67.5°	12.5
70°	9.4
72.5°	7.8
75°	4.7
77.5°	3.2
80°	3.2
82.5°	1.6
85°	1.6
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)