

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: P580256

Luminaire Tested: **HC430D010-HM43040827-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580256  
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-HM43040827-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2517.3 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

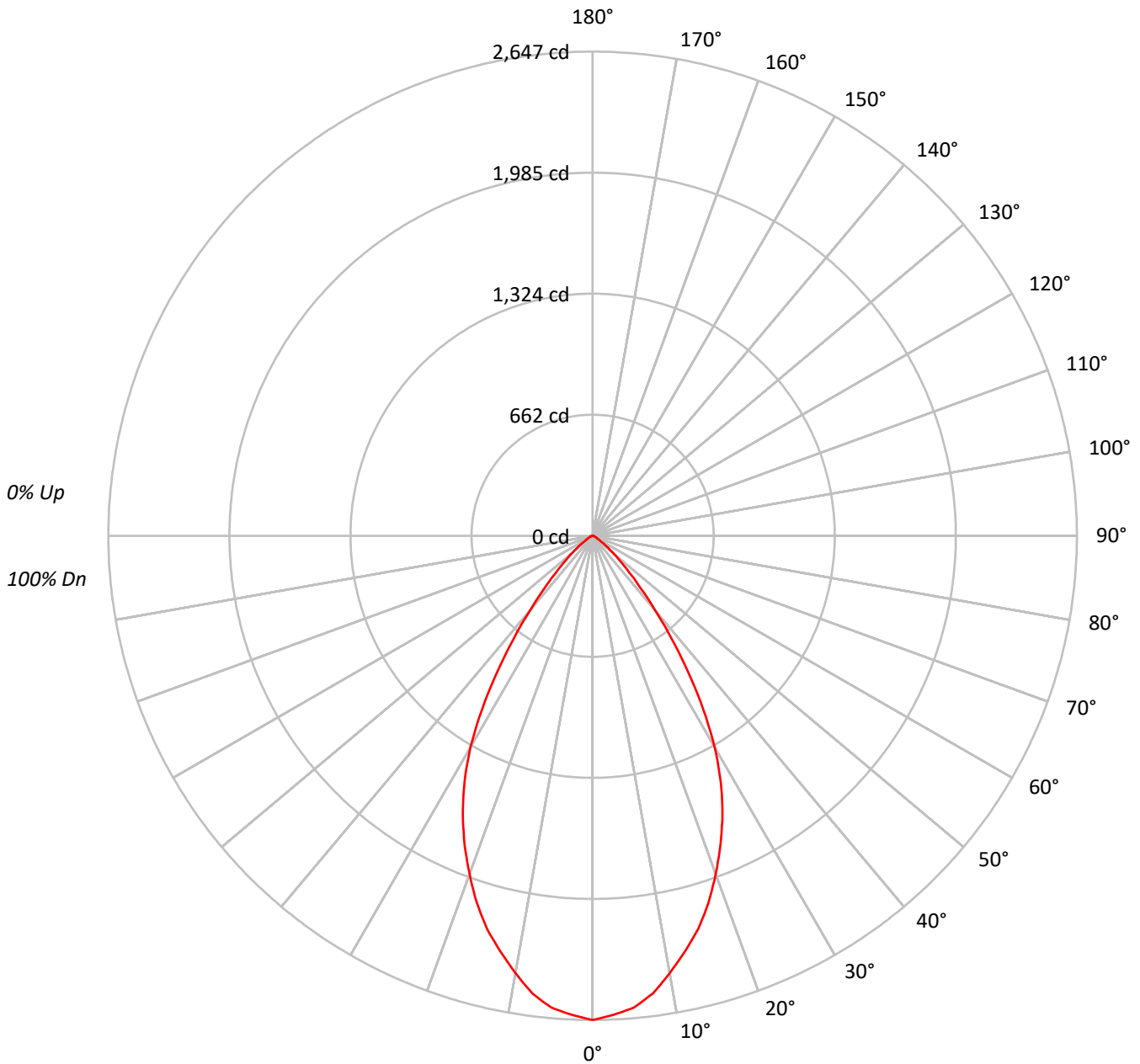
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P580256

CATALOG NUMBER: HC430D010-HM43040827-41NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P580256

CATALOG NUMBER: HC430D010-HM43040827-41NDH

**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	83	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°	326508
5°	320562
10°	304066
15°	284304
20°	258205
25°	228493
30°	190055
35°	137055
40°	85532
45°	49331
50°	27843
55°	13247
60°	7598
65°	5837
70°	3895
75°	2573
80°	2557
85°	2547



TEST NUMBER: P580256

CATALOG NUMBER: HC430D010-HM43040827-41NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	9.6
10°-20°	621.1	24.7
20°-30°	763.9	30.3
30°-40°	567.3	22.5
40°-50°	230.6	9.2
50°-60°	63.9	2.5
60°-70°	19.9	0.8
70°-80°	6.6	0.3
80°-90°	2.0	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°	1627.0	64.6
0°-40°	2194.3	87.2
0°-60°	2488.8	98.9
0°-90°	2517.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2517.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2647	
5°	2589	242
15°	2226	621
25°	1679	764
35°	910	567
45°	283	231
55°	62	64
65°	20	20
75°	5	7
85°	2	2
90°	0	



TEST NUMBER: P580256

CATALOG NUMBER: HC430D010-HM43040827-41NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2647.1
2.5°	2621.7
5°	2589.0
7.5°	2523.8
10°	2427.7
12.5°	2328.0
15°	2226.4
17.5°	2105.0
20°	1967.1
22.5°	1827.6
25°	1678.9
27.5°	1517.5
30°	1334.4
32.5°	1125.9
35°	910.2
37.5°	707.1
40°	531.2
42.5°	388.0
45°	282.8
47.5°	203.0
50°	145.1
52.5°	99.7
55°	61.6
57.5°	39.9
60°	30.8
62.5°	25.4
65°	20.0
67.5°	14.6
70°	10.8
72.5°	9.0
75°	5.4
77.5°	3.6
80°	3.6
82.5°	1.8
85°	1.8
87.5°	1.8
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)