

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: P580262

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC430D010-HM43040827-41NDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2684.1 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

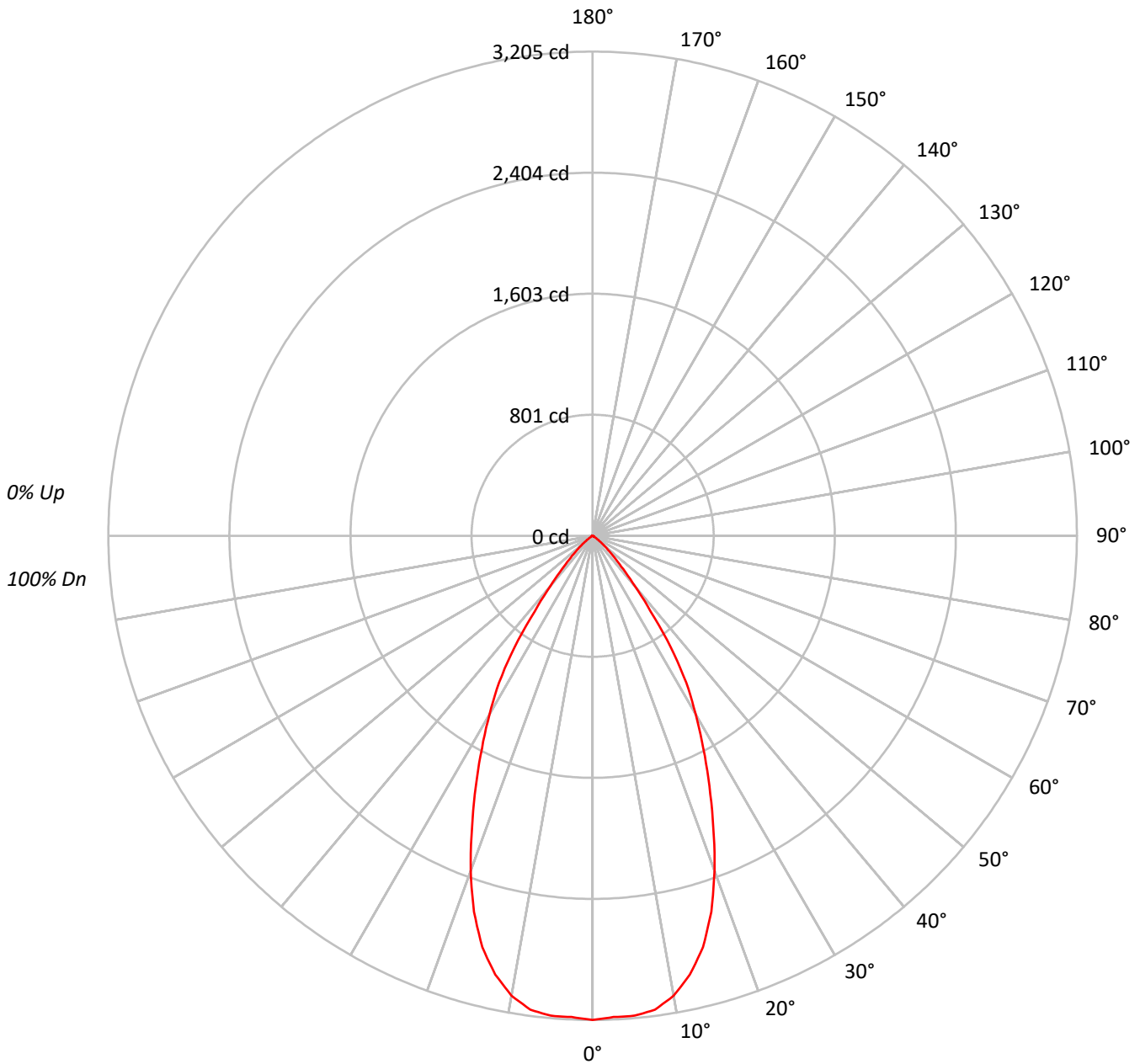
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P580262

CATALOG NUMBER: HC430D010-HM43040827-41NDC

### Luminous Intensity Polar Plot





TEST NUMBER: P580262

CATALOG NUMBER: HC430D010-HM43040827-41NDC

**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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58			
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52			

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

	0°
0°	395347
5°	394852
10°	387155
15°	359990
20°	309594
25°	248717
30°	194171
35°	135956
40°	69768
45°	35411
50°	17750
55°	6623
60°	2664
65°	2101
70°	1298
75°	858
80°	1279
85°	0



TEST NUMBER: P580262

CATALOG NUMBER: HC430D010-HM43040827-41NDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.5	11.2
10°-20°	778.2	29.0
20°-30°	838.3	31.2
30°-40°	550.8	20.5
40°-50°	171.2	6.4
50°-60°	33.6	1.3
60°-70°	7.1	0.3
70°-80°	2.6	0.1
80°-90°	0.7	0.0
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°	1918.0	71.5
0°-40°	2468.8	92.0
0°-60°	2673.7	99.6
0°-90°	2684.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3205	
5°	3189	302
15°	2819	778
25°	1828	838
35°	903	551
45°	203	171
55°	31	34
65°	7	7
75°	2	3
85°	0	1
90°	0	



TEST NUMBER: P580262

CATALOG NUMBER: HC430D010-HM43040827-41NDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3205.2
2.5°	3189.0
5°	3189.0
7.5°	3163.6
10°	3091.1
12.5°	2975.0
15°	2819.1
17.5°	2610.6
20°	2358.6
22.5°	2086.7
25°	1827.5
27.5°	1586.3
30°	1363.3
32.5°	1153.0
35°	902.9
37.5°	629.1
40°	433.3
42.5°	299.1
45°	203.0
47.5°	137.7
50°	92.5
52.5°	58.0
55°	30.8
57.5°	12.7
60°	10.8
62.5°	9.0
65°	7.2
67.5°	5.4
70°	3.6
72.5°	3.6
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)