

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: P580371

Luminaire Tested: **HC430D010-HM43040935-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC430D010-HM43040935-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2977.2 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

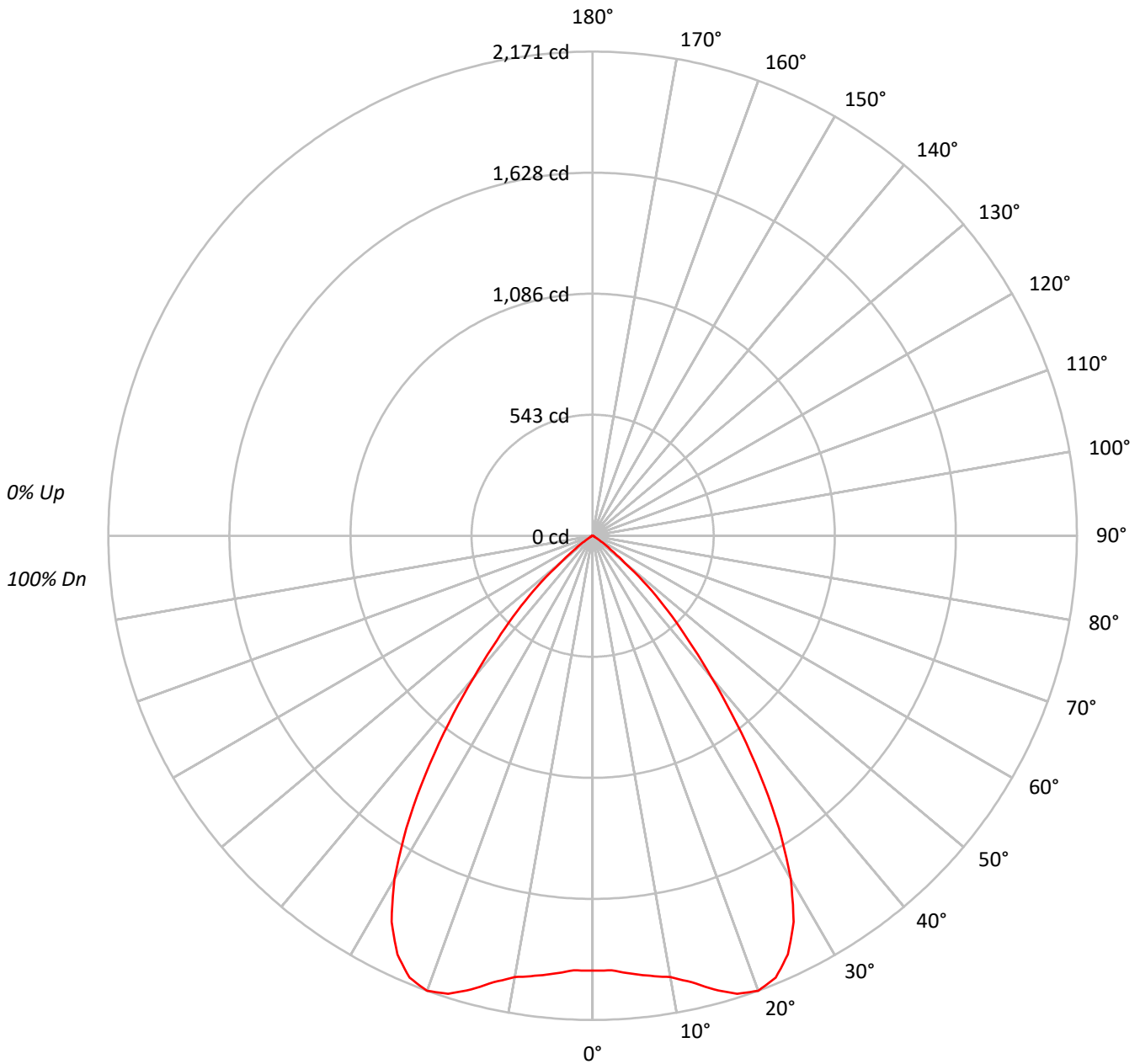
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P580371

CATALOG NUMBER: HC430D010-HM43040935-41WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P580371

CATALOG NUMBER: HC430D010-HM43040935-41WDC

**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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60	60	60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

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

	0°
0°	240512
5°	244043
10°	251687
15°	268942
20°	284956
25°	281843
30°	252965
35°	196880
40°	133386
45°	83276
50°	36037
55°	12086
60°	3034
65°	2043
70°	1262
75°	858
80°	1279
85°	0



TEST NUMBER: P580371

CATALOG NUMBER: HC430D010-HM43040935-41WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.3	6.4
10°-20°	597.9	20.1
20°-30°	936.7	31.5
30°-40°	808.4	27.2
40°-50°	371.8	12.5
50°-60°	63.2	2.1
60°-70°	7.1	0.2
70°-80°	2.6	0.1
80°-90°	0.2	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°	1723.9	57.9
0°-40°	2532.3	85.1
0°-60°	2967.3	99.7
0°-90°	2977.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2977.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1950	
5°	1971	189
15°	2106	598
25°	2071	937
35°	1308	808
45°	477	372
55°	56	63
65°	7	7
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P580371

CATALOG NUMBER: HC430D010-HM43040935-41WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1949.9
2.5°	1949.9
5°	1971.0
7.5°	1990.2
10°	2009.5
12.5°	2049.9
15°	2106.1
17.5°	2153.5
20°	2170.9
22.5°	2144.7
25°	2070.9
27.5°	1951.6
30°	1776.1
32.5°	1554.9
35°	1307.5
37.5°	1058.3
40°	828.4
42.5°	633.6
45°	477.4
47.5°	335.2
50°	187.8
52.5°	103.6
55°	56.2
57.5°	28.1
60°	12.3
62.5°	8.8
65°	7.0
67.5°	5.3
70°	3.5
72.5°	3.5
75°	1.8
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)