

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: P592772

Luminaire Tested: **HC435D010-HM43040850-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592772  
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: HC435D010-HM43040850-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4184.7 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

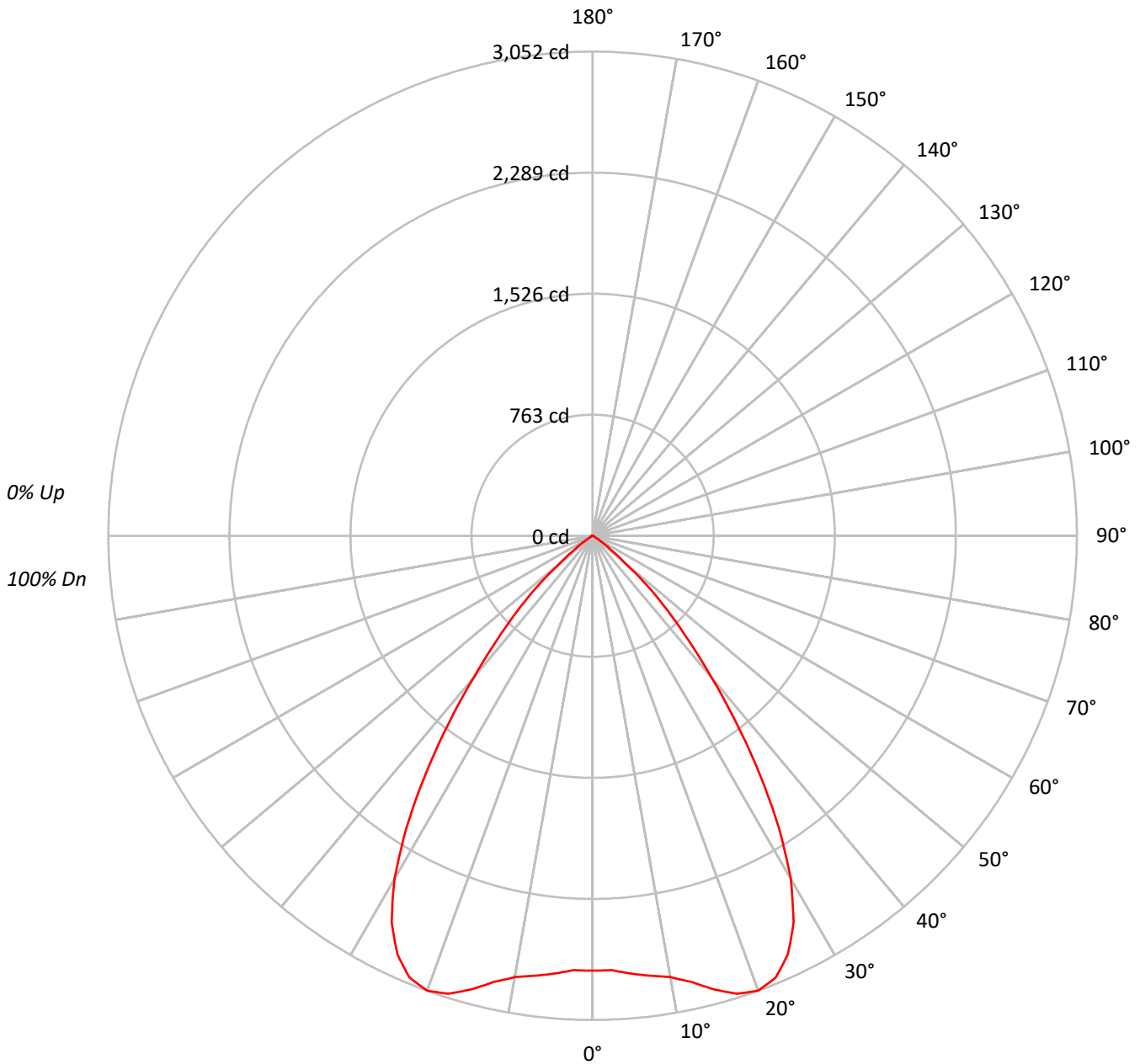
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	338041
5°	343010
10°	353777
15°	378021
20°	400545
25°	396164
30°	355570
35°	276746
40°	187487
45°	117047
50°	50640
55°	16967
60°	4268
65°	2889
70°	1767
75°	1191
80°	1776
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.1	6.4
10°-20°	840.3	20.1
20°-30°	1316.7	31.5
30°-40°	1136.4	27.2
40°-50°	522.6	12.5
50°-60°	88.7	2.1
60°-70°	10.1	0.2
70°-80°	3.6	0.1
80°-90°	0.3	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°	2423.1	57.9
0°-40°	3559.4	85.1
0°-60°	4170.7	99.7
0°-90°	4184.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4184.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2741	
5°	2770	266
15°	2960	840
25°	2911	1317
35°	1838	1136
45°	671	523
55°	79	89
65°	10	10
75°	2	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2740.6
2.5°	2740.6
5°	2770.3
7.5°	2797.4
10°	2824.6
12.5°	2881.3
15°	2960.3
17.5°	3026.8
20°	3051.5
22.5°	3014.6
25°	2910.9
27.5°	2743.1
30°	2496.5
32.5°	2185.6
35°	1837.9
37.5°	1487.5
40°	1164.4
42.5°	890.5
45°	671.0
47.5°	471.2
50°	263.9
52.5°	145.6
55°	78.9
57.5°	39.5
60°	17.3
62.5°	12.4
65°	9.9
67.5°	7.4
70°	4.9
72.5°	4.9
75°	2.5
77.5°	2.5
80°	2.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)