

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: P580671

Luminaire Tested: **HC440D010-HM43040940-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040940-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3570.2 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

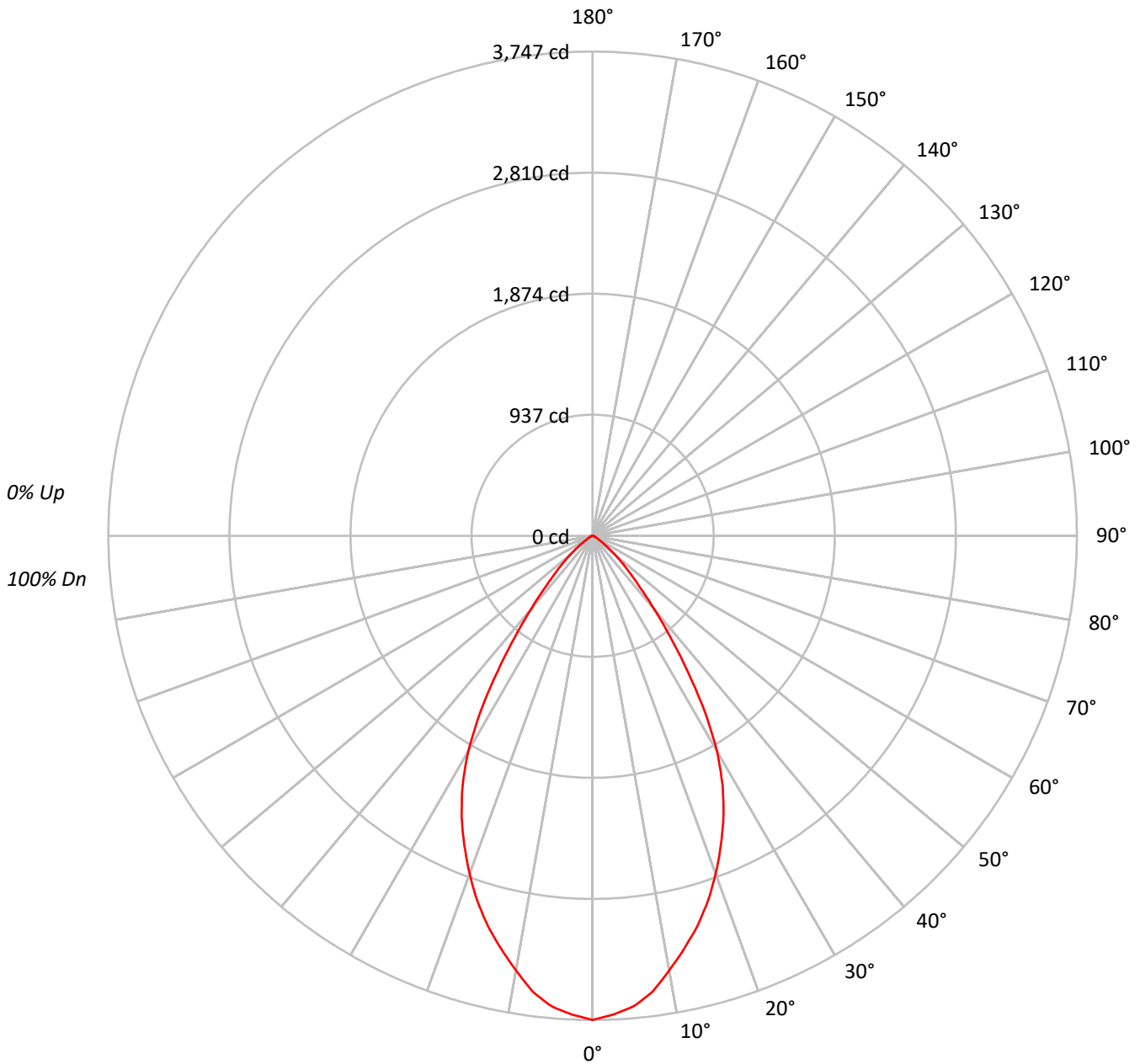
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	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	47	47	47	47

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

	0°
0°	462201
5°	452526
10°	427661
15°	399410
20°	365301
25°	326211
30°	273930
35°	192709
40°	118878
45°	71153
50°	41948
55°	20903
60°	10780
65°	7092
70°	4364
75°	3479
80°	1776
85°	3538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.3	9.6
10°-20°	874.3	24.5
20°-30°	1090.4	30.5
30°-40°	803.2	22.5
40°-50°	330.3	9.3
50°-60°	96.5	2.7
60°-70°	24.8	0.7
70°-80°	7.7	0.2
80°-90°	1.7	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°	2306.0	64.6
0°-40°	3109.2	87.1
0°-60°	3536.0	99.0
0°-90°	3570.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3747	
5°	3655	341
15°	3128	874
25°	2397	1090
35°	1280	803
45°	408	330
55°	97	97
65°	24	25
75°	7	8
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3747.2
2.5°	3708.3
5°	3654.8
7.5°	3557.7
10°	3414.5
12.5°	3273.5
15°	3127.8
17.5°	2965.2
20°	2783.0
22.5°	2593.5
25°	2396.9
27.5°	2178.3
30°	1923.3
32.5°	1614.9
35°	1279.8
37.5°	983.6
40°	738.3
42.5°	546.4
45°	407.9
47.5°	301.1
50°	218.6
52.5°	150.6
55°	97.2
57.5°	58.3
60°	43.7
62.5°	31.6
65°	24.3
67.5°	17.0
70°	12.1
72.5°	9.8
75°	7.3
77.5°	4.8
80°	2.5
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)