

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: P580552

Luminaire Tested: **HC440D010-HM43040827-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040827-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3628.1 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

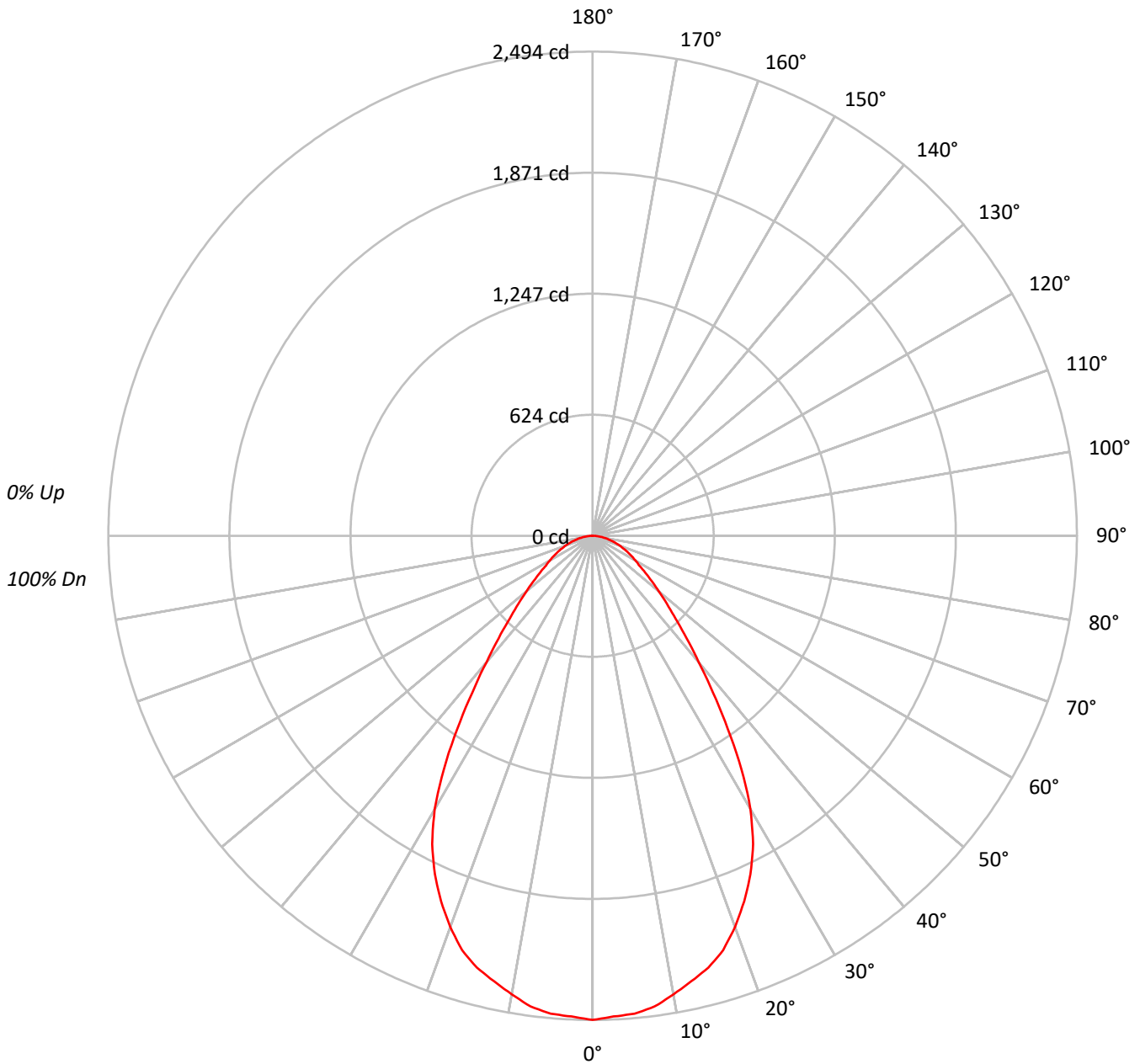
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	307587
5°	305964
10°	300371
15°	294035
20°	281451
25°	261728
30°	231658
35°	182831
40°	136816
45°	105238
50°	85373
55°	70815
60°	62635
65°	57964
70°	53483
75°	49087
80°	44679
85°	35522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	6.4
10°-20°	645.7	17.8
20°-30°	876.8	24.2
30°-40°	759.5	20.9
40°-50°	476.9	13.1
50°-60°	300.0	8.3
60°-70°	197.1	5.4
70°-80°	108.7	3.0
80°-90°	29.7	0.8
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°	1756.2	48.4
0°-40°	2515.7	69.3
0°-60°	3292.6	90.8
0°-90°	3628.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2494	
5°	2471	234
15°	2303	646
25°	1923	877
35°	1214	760
45°	603	477
55°	329	300
65°	199	197
75°	103	109
85°	25	30
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2493.7
2.5°	2478.6
5°	2471.1
7.5°	2445.9
10°	2398.2
12.5°	2350.4
15°	2302.6
17.5°	2237.3
20°	2144.2
22.5°	2038.8
25°	1923.1
27.5°	1789.8
30°	1626.5
32.5°	1427.8
35°	1214.2
37.5°	1018.1
40°	849.7
42.5°	716.4
45°	603.3
47.5°	517.9
50°	444.9
52.5°	382.1
55°	329.3
57.5°	284.1
60°	253.9
62.5°	226.2
65°	198.6
67.5°	171.0
70°	148.3
72.5°	123.2
75°	103.0
77.5°	80.5
80°	62.9
82.5°	42.7
85°	25.1
87.5°	10.1
90°	0.0



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— 0°-180°







(END OF REPORT)