

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: P580562

Luminaire Tested: **HC440D010-HM43040830-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040830-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4387.3 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

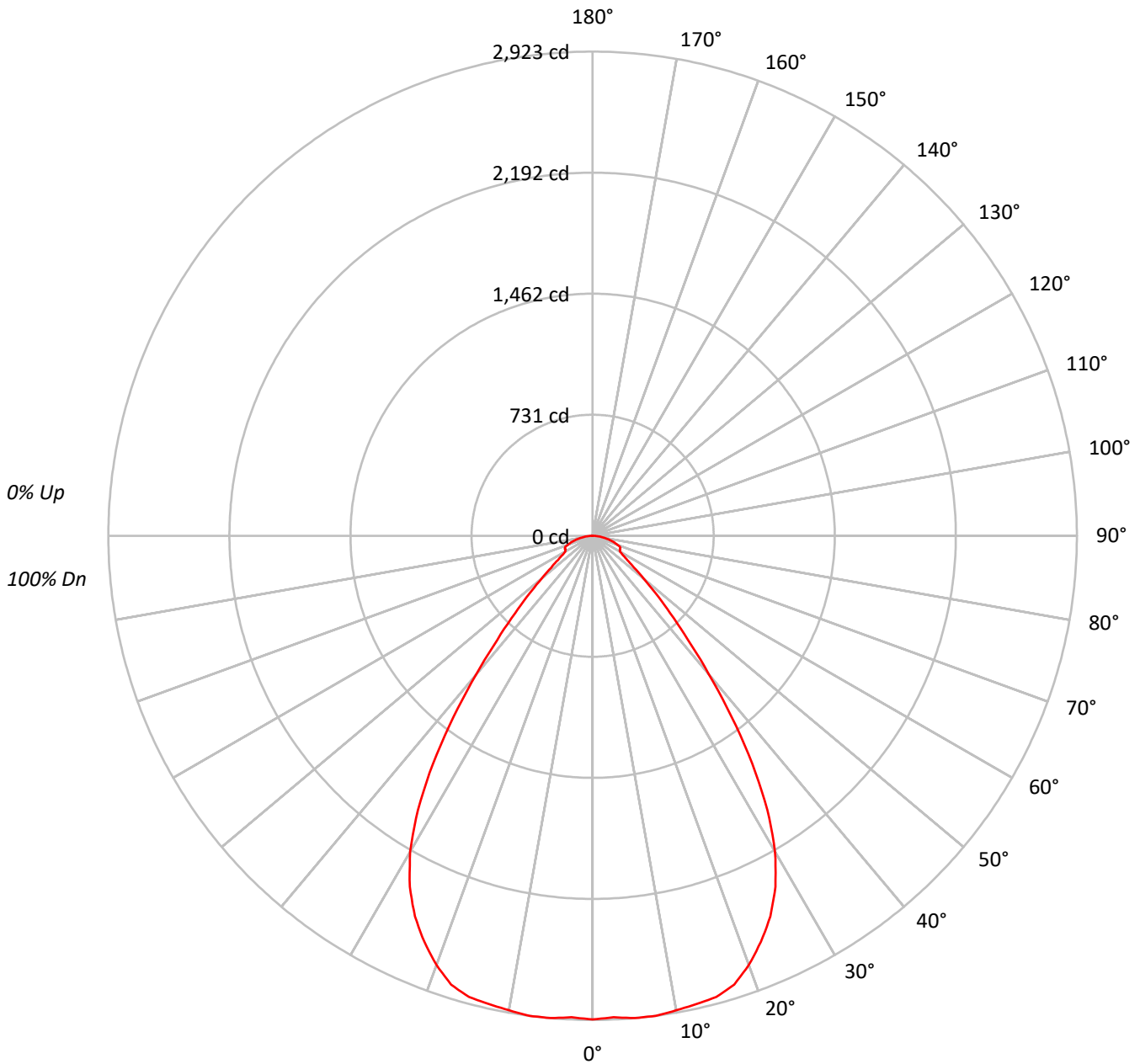
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	360169
5°	361892
10°	364360
15°	368022
20°	361875
25°	345237
30°	313653
35°	253015
40°	175556
45°	115251
50°	77217
55°	54966
60°	46945
65°	53965
70°	57846
75°	55711
80°	50220
85°	46137



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.5	6.3
10°-20°	809.6	18.5
20°-30°	1156.7	26.4
30°-40°	1033.3	23.6
40°-50°	530.0	12.1
50°-60°	240.9	5.5
60°-70°	179.7	4.1
70°-80°	122.3	2.8
80°-90°	36.3	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°	2244.9	51.2
0°-40°	3278.2	74.7
0°-60°	4049.1	92.3
0°-90°	4387.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4387.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2920	
5°	2923	279
15°	2882	810
25°	2537	1157
35°	1680	1033
45°	661	530
55°	256	241
65°	185	180
75°	117	122
85°	33	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2920.0
2.5°	2909.1
5°	2922.8
7.5°	2922.8
10°	2909.1
12.5°	2895.5
15°	2882.0
17.5°	2841.2
20°	2756.9
22.5°	2653.6
25°	2536.7
27.5°	2389.9
30°	2202.2
32.5°	1963.0
35°	1680.3
37.5°	1378.5
40°	1090.3
42.5°	851.0
45°	660.7
47.5°	516.6
50°	402.4
52.5°	315.3
55°	255.6
57.5°	214.8
60°	190.3
62.5°	184.9
65°	184.9
67.5°	179.5
70°	160.4
72.5°	138.7
75°	116.9
77.5°	92.5
80°	70.7
82.5°	51.7
85°	32.6
87.5°	13.6
90°	0.0



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— 0°-180°







(END OF REPORT)