

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: P580616

Luminaire Tested: **HC440D010-HM43040927-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580616  
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-HM43040927-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3504.2 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

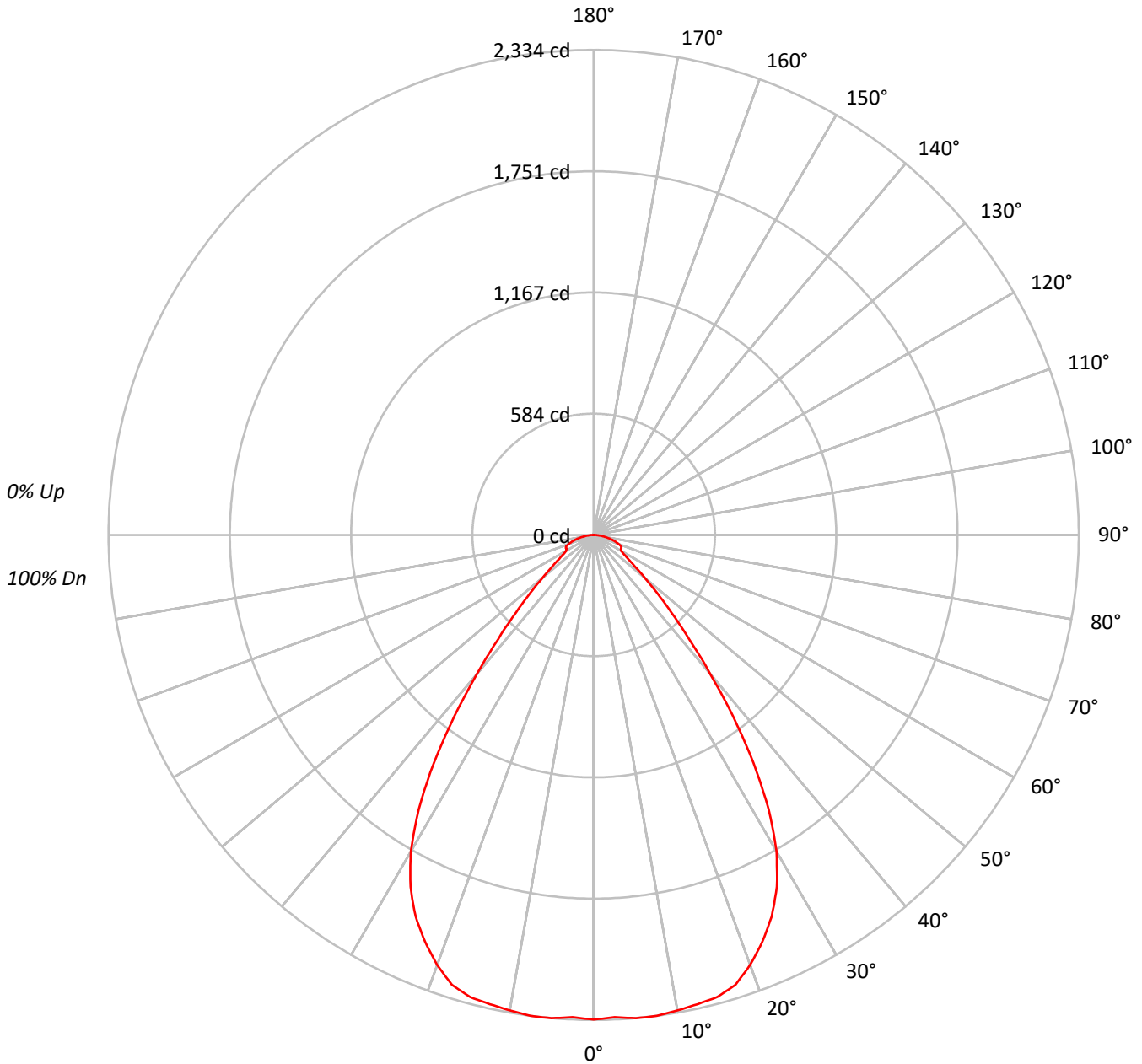
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	287691
5°	289050
10°	291027
15°	293945
20°	289038
25°	275746
30°	250530
35°	202090
40°	140213
45°	92050
50°	61674
55°	43891
60°	37497
65°	43079
70°	46198
75°	44512
80°	40133
85°	36796



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.5	6.3
10°-20°	646.7	18.5
20°-30°	923.9	26.4
30°-40°	825.3	23.6
40°-50°	423.3	12.1
50°-60°	192.4	5.5
60°-70°	143.5	4.1
70°-80°	97.7	2.8
80°-90°	29.0	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°	1793.0	51.2
0°-40°	2618.4	74.7
0°-60°	3234.1	92.3
0°-90°	3504.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2332	
5°	2334	222
15°	2302	647
25°	2026	924
35°	1342	825
45°	528	423
55°	204	192
65°	148	143
75°	93	98
85°	26	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2332.4
2.5°	2323.6
5°	2334.5
7.5°	2334.5
10°	2323.6
12.5°	2312.7
15°	2301.9
17.5°	2269.4
20°	2202.0
22.5°	2119.5
25°	2026.1
27.5°	1908.8
30°	1759.0
32.5°	1567.9
35°	1342.1
37.5°	1101.0
40°	870.8
42.5°	679.7
45°	527.7
47.5°	412.6
50°	321.4
52.5°	251.9
55°	204.1
57.5°	171.5
60°	152.0
62.5°	147.6
65°	147.6
67.5°	143.4
70°	128.1
72.5°	110.8
75°	93.4
77.5°	73.9
80°	56.5
82.5°	41.3
85°	26.0
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)