

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: P580633

Luminaire Tested: **HC440D010-HM43040930-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040930-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3022.3 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

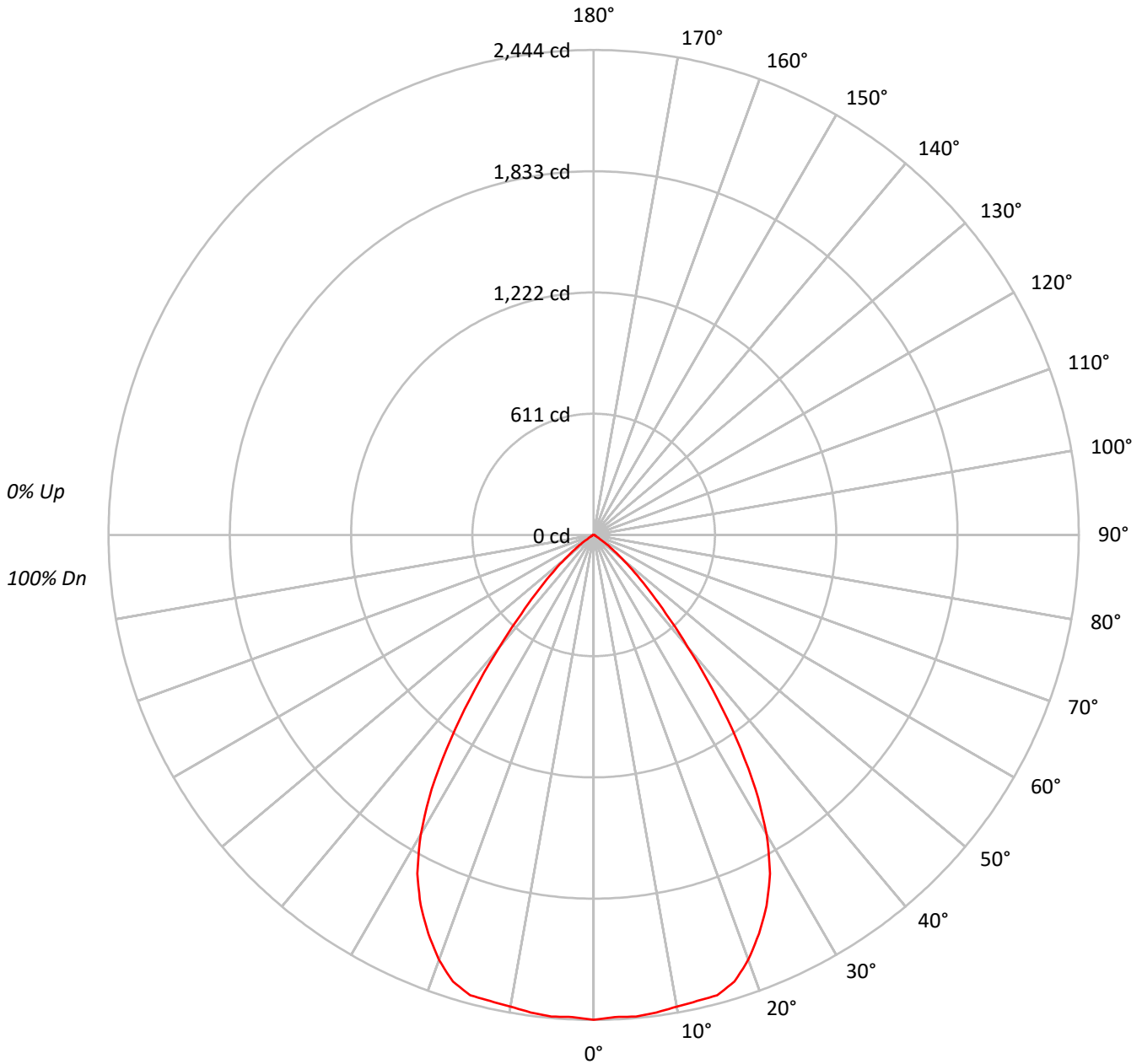
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P580633

CATALOG NUMBER: HC440D010-HM43040930-41WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P580633

CATALOG NUMBER: HC440D010-HM43040930-41WDBB

**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	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

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

	0°
0°	301407
5°	301692
10°	302262
15°	306677
20°	299040
25°	280564
30°	248165
35°	188718
40°	118894
45°	68257
50°	36210
55°	15010
60°	4021
65°	3415
70°	2524
75°	2240
80°	1705
85°	3397



TEST NUMBER: P580633

CATALOG NUMBER: HC440D010-HM43040930-41WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.7	7.7
10°-20°	672.5	22.3
20°-30°	938.5	31.1
30°-40°	772.3	25.6
40°-50°	318.1	10.5
50°-60°	71.7	2.4
60°-70°	11.5	0.4
70°-80°	4.3	0.1
80°-90°	1.6	0.1
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°	1842.7	61.0
0°-40°	2615.0	86.5
0°-60°	3004.8	99.4
0°-90°	3022.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3022.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2444	
5°	2437	232
15°	2402	672
25°	2062	939
35°	1253	772
45°	391	318
55°	70	72
65°	12	12
75°	5	4
85°	2	2
90°	0	



TEST NUMBER: P580633

CATALOG NUMBER: HC440D010-HM43040930-41WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2443.6
2.5°	2431.9
5°	2436.6
7.5°	2427.3
10°	2413.3
12.5°	2406.3
15°	2401.6
17.5°	2359.7
20°	2278.2
22.5°	2175.6
25°	2061.5
27.5°	1924.1
30°	1742.4
32.5°	1518.7
35°	1253.3
37.5°	985.4
40°	738.4
42.5°	538.1
45°	391.3
47.5°	279.6
50°	188.7
52.5°	118.8
55°	69.8
57.5°	35.0
60°	16.3
62.5°	14.0
65°	11.7
67.5°	9.3
70°	7.0
72.5°	4.7
75°	4.7
77.5°	2.4
80°	2.4
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)