

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: P580623

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040927-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3684.4 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

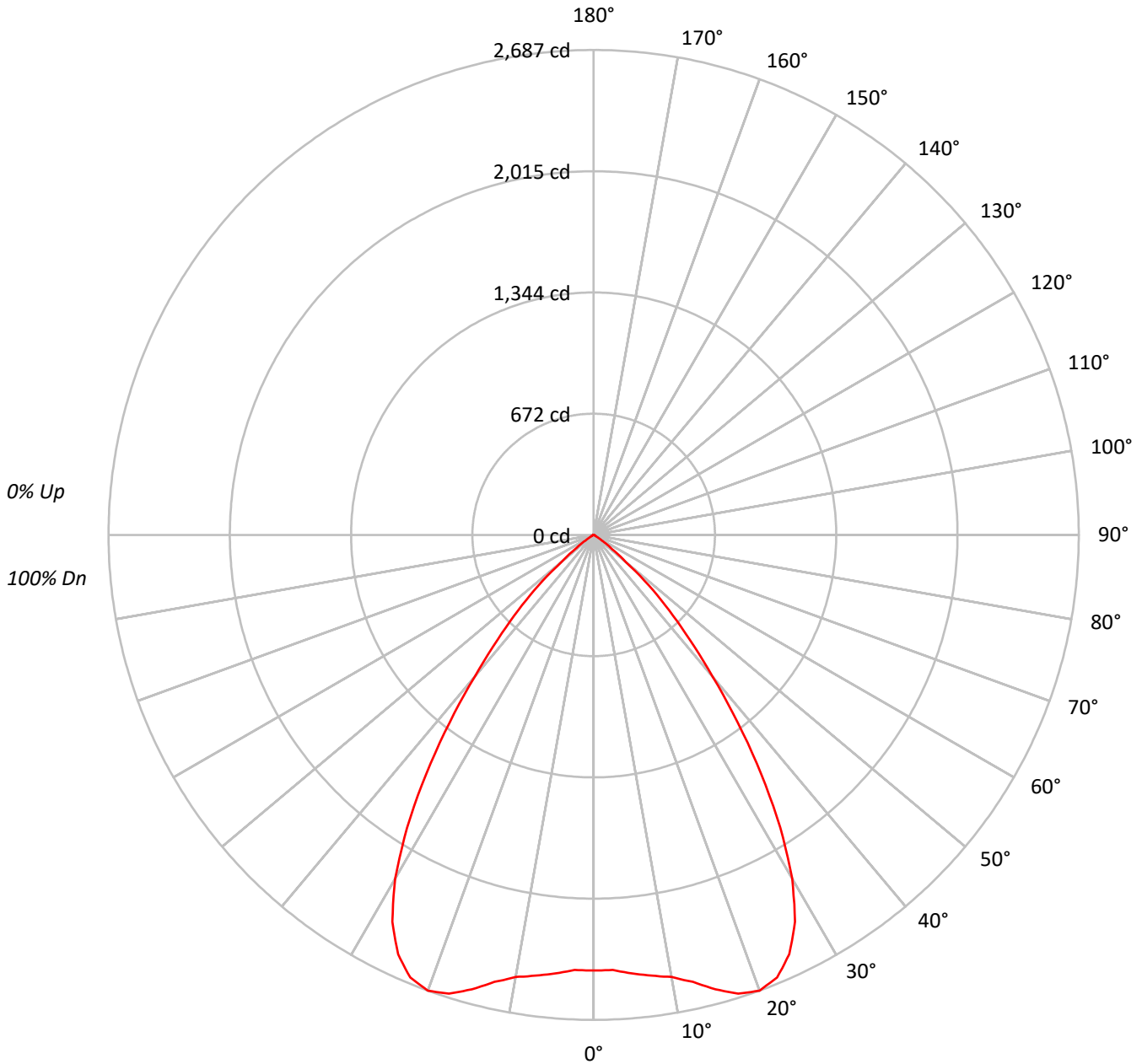
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580623

CATALOG NUMBER: HC440D010-HM43040927-41WDC

Luminous Intensity Polar Plot





TEST NUMBER: P580623

CATALOG NUMBER: HC440D010-HM43040927-41WDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71																			
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65																			
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60																			
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55																			
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51																			
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																			
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	297645
5°	302002
10°	311480
15°	332816
20°	352661
25°	348803
30°	313069
35°	243664
40°	165074
45°	103057
50°	44596
55°	14946
60°	3750
65°	2539
70°	1587
75°	1001
80°	1492
85°	0



TEST NUMBER: P580623

CATALOG NUMBER: HC440D010-HM43040927-41WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	6.4
10°-20°	739.9	20.1
20°-30°	1159.3	31.5
30°-40°	1000.5	27.2
40°-50°	460.1	12.5
50°-60°	78.1	2.1
60°-70°	8.8	0.2
70°-80°	3.1	0.1
80°-90°	0.3	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°	2133.4	57.9
0°-40°	3133.9	85.1
0°-60°	3672.2	99.7
0°-90°	3684.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3684.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2413	
5°	2439	234
15°	2606	740
25°	2563	1159
35°	1618	1001
45°	591	460
55°	70	78
65°	9	9
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P580623

CATALOG NUMBER: HC440D010-HM43040927-41WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2413.1
2.5°	2413.1
5°	2439.1
7.5°	2463.1
10°	2486.9
12.5°	2536.8
15°	2606.3
17.5°	2665.0
20°	2686.7
22.5°	2654.2
25°	2562.9
27.5°	2415.2
30°	2198.1
32.5°	1924.3
35°	1618.2
37.5°	1309.7
40°	1025.2
42.5°	784.0
45°	590.8
47.5°	414.9
50°	232.4
52.5°	128.1
55°	69.5
57.5°	34.8
60°	15.2
62.5°	10.9
65°	8.7
67.5°	6.5
70°	4.4
72.5°	4.4
75°	2.1
77.5°	2.1
80°	2.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)