

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: P580625

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040927-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2987.4 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

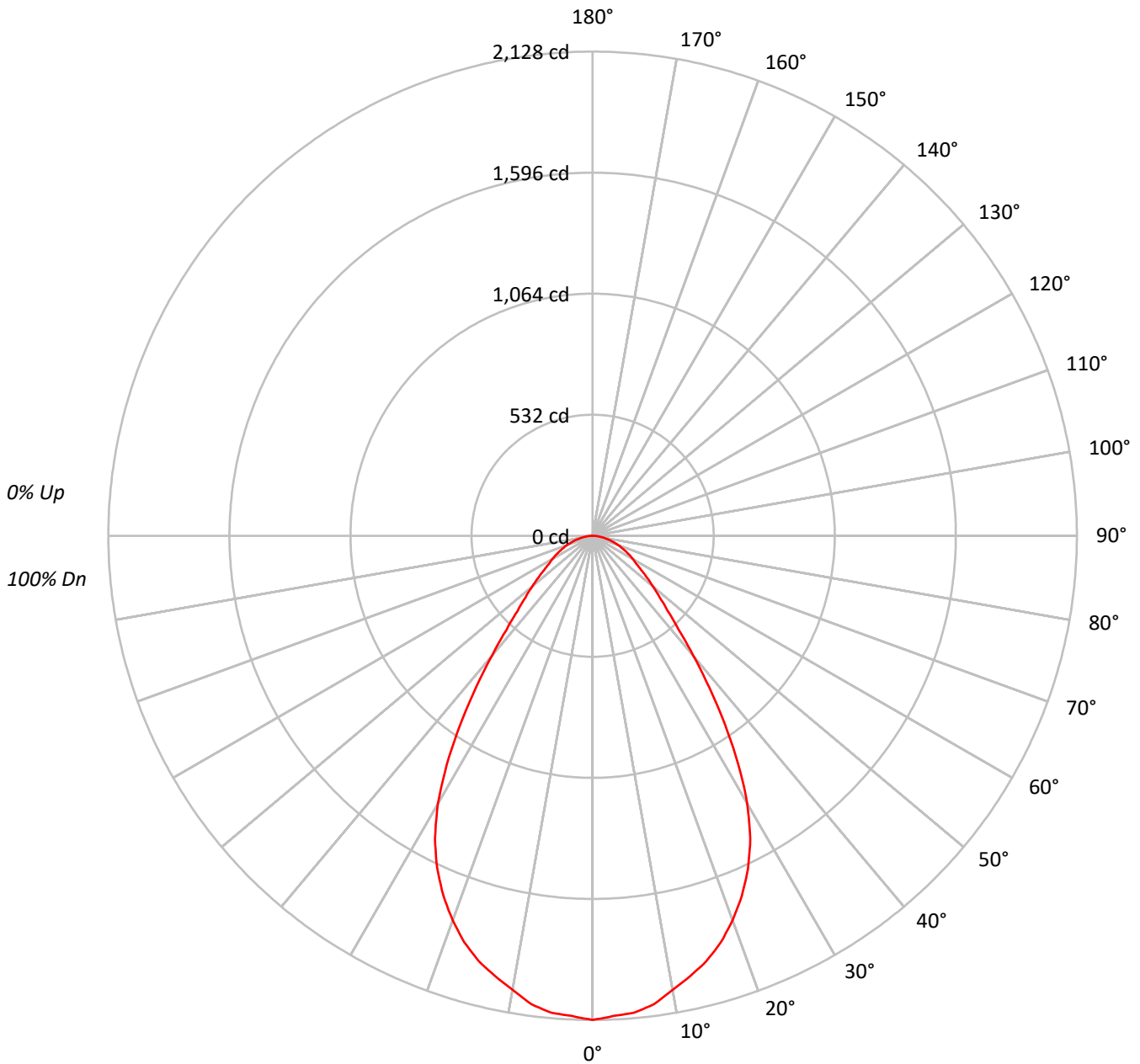
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P580625

CATALOG NUMBER: HC440D010-HM43040927-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580625

CATALOG NUMBER: HC440D010-HM43040927-41NDW

**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	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

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

	0°
0°	262467
5°	260511
10°	253741
15°	247042
20°	235995
25°	219864
30°	193587
35°	152670
40°	110828
45°	81427
50°	66260
55°	55568
60°	50350
65°	46260
70°	43060
75°	39317
80°	35445
85°	30711



TEST NUMBER: P580625

CATALOG NUMBER: HC440D010-HM43040927-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.4	6.6
10°-20°	542.6	18.2
20°-30°	735.6	24.6
30°-40°	631.2	21.1
40°-50°	372.7	12.5
50°-60°	236.2	7.9
60°-70°	158.7	5.3
70°-80°	87.6	2.9
80°-90°	24.5	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°	1476.6	49.4
0°-40°	2107.8	70.6
0°-60°	2716.7	90.9
0°-90°	2987.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2987.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2128	
5°	2104	198
15°	1935	543
25°	1616	736
35°	1014	631
45°	467	373
55°	258	236
65°	158	159
75°	82	88
85°	22	24
90°	0	



TEST NUMBER: P580625

CATALOG NUMBER: HC440D010-HM43040927-41NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2127.9
2.5°	2112.6
5°	2104.0
7.5°	2075.8
10°	2025.9
12.5°	1982.4
15°	1934.6
17.5°	1873.9
20°	1797.9
22.5°	1713.1
25°	1615.5
27.5°	1500.3
30°	1359.2
32.5°	1192.1
35°	1013.9
37.5°	842.4
40°	688.3
42.5°	560.2
45°	466.8
47.5°	399.5
50°	345.3
52.5°	299.6
55°	258.4
57.5°	225.8
60°	204.1
62.5°	182.4
65°	158.5
67.5°	139.0
70°	119.4
72.5°	99.9
75°	82.5
77.5°	65.1
80°	49.9
82.5°	34.8
85°	21.7
87.5°	8.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)