

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: P580598

Luminaire Tested: **HC440D010-HM43040840-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580598  
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-HM43040840-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4603.4 lumens  
Efficiency: N/A  
Efficacy: 112.3 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

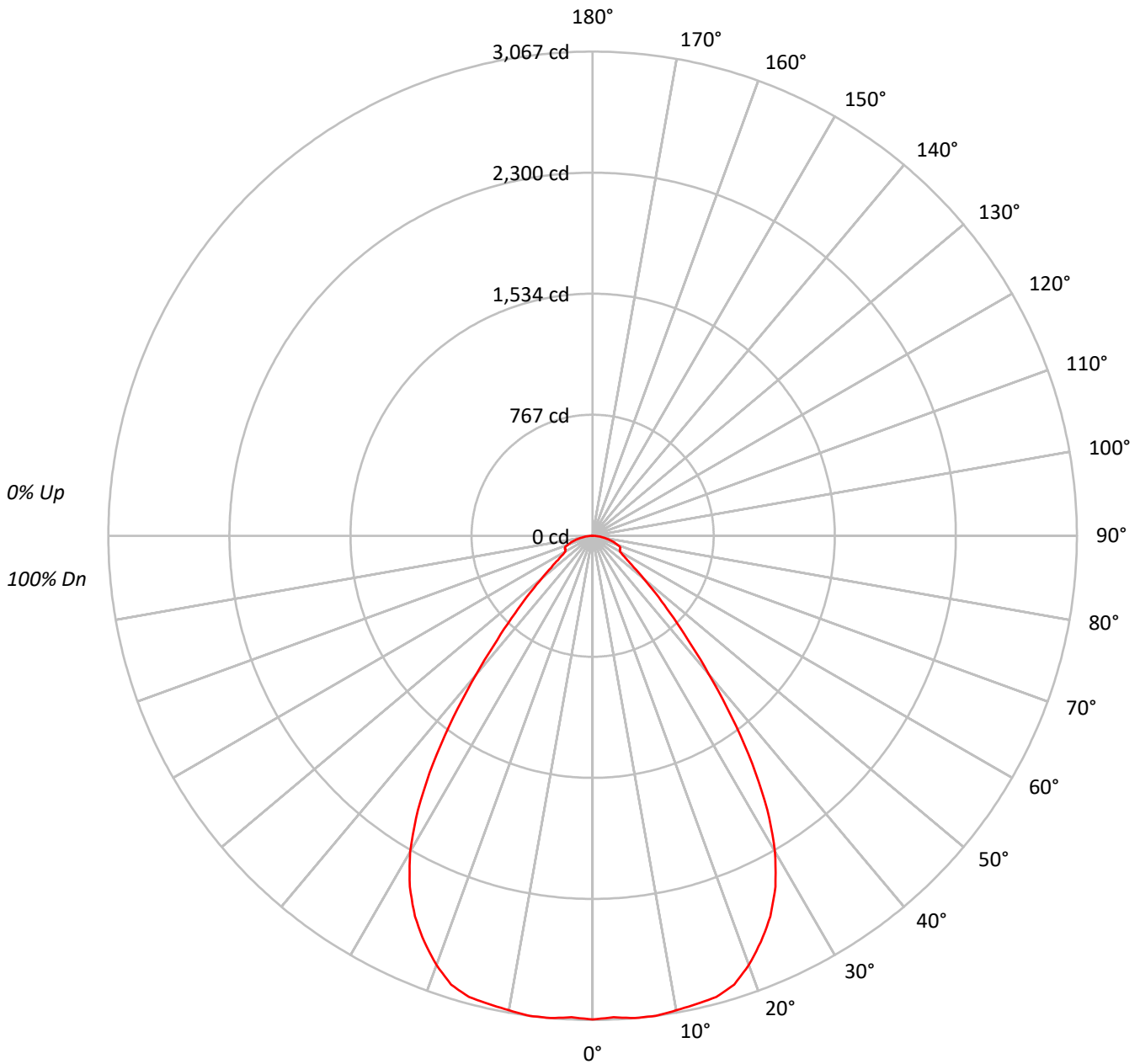
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	377919
5°	379721
10°	382321
15°	386155
20°	379701
25°	362249
30°	329121
35°	265468
40°	184203
45°	120920
50°	81017
55°	57654
60°	49264
65°	56621
70°	60695
75°	58428
80°	52706
85°	48401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.3	6.3
10°-20°	849.5	18.5
20°-30°	1213.7	26.4
30°-40°	1084.2	23.6
40°-50°	556.1	12.1
50°-60°	252.7	5.5
60°-70°	188.5	4.1
70°-80°	128.3	2.8
80°-90°	38.0	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°	2355.5	51.2
0°-40°	3439.7	74.7
0°-60°	4248.6	92.3
0°-90°	4603.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4603.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3064	
5°	3067	292
15°	3024	849
25°	2662	1214
35°	1763	1084
45°	693	556
55°	268	253
65°	194	189
75°	123	128
85°	34	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3063.9
2.5°	3052.5
5°	3066.8
7.5°	3066.8
10°	3052.5
12.5°	3038.2
15°	3024.0
17.5°	2981.2
20°	2892.7
22.5°	2784.3
25°	2661.7
27.5°	2507.7
30°	2310.8
32.5°	2059.7
35°	1763.0
37.5°	1446.4
40°	1144.0
42.5°	893.0
45°	693.2
47.5°	542.0
50°	422.2
52.5°	330.9
55°	268.1
57.5°	225.3
60°	199.7
62.5°	194.0
65°	194.0
67.5°	188.3
70°	168.3
72.5°	145.5
75°	122.6
77.5°	97.0
80°	74.2
82.5°	54.3
85°	34.2
87.5°	14.2
90°	0.0



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— 0°-180°







(END OF REPORT)