

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: P580588

Luminaire Tested: **HC440D010-HM43040835-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040835-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3936.3 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

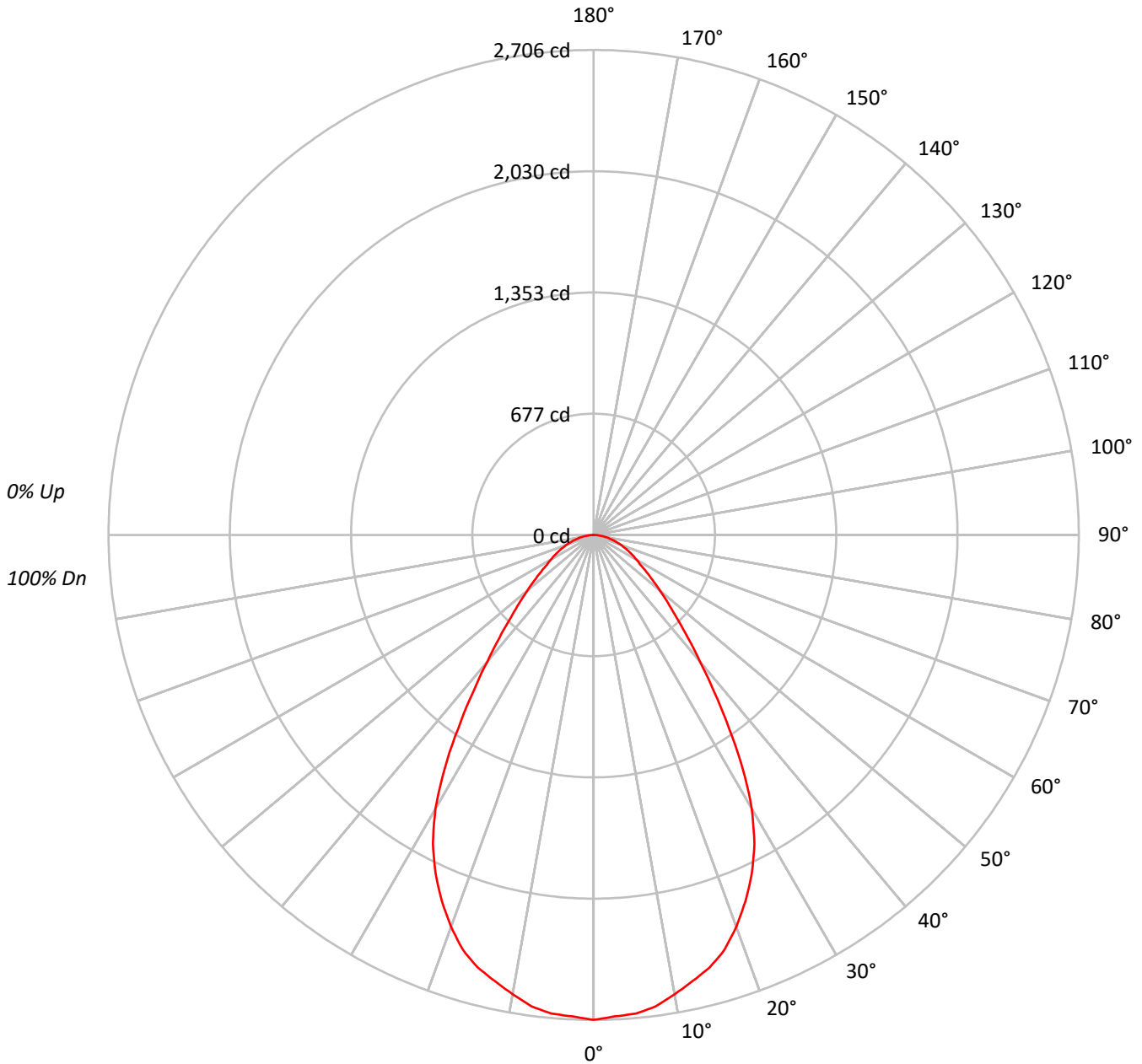
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	333724
5°	331965
10°	325896
15°	319025
20°	305380
25°	283966
30°	251341
35°	198355
40°	148441
45°	114186
50°	92626
55°	76836
60°	67939
65°	62896
70°	58027
75°	53328
80°	48444
85°	38494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.5	6.4
10°-20°	700.6	17.8
20°-30°	951.3	24.2
30°-40°	824.1	20.9
40°-50°	517.4	13.1
50°-60°	325.5	8.3
60°-70°	213.8	5.4
70°-80°	118.0	3.0
80°-90°	32.3	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°	1905.4	48.4
0°-40°	2729.5	69.3
0°-60°	3572.3	90.8
0°-90°	3936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2706	
5°	2681	253
15°	2498	701
25°	2086	951
35°	1317	824
45°	655	517
55°	357	325
65°	216	214
75°	112	118
85°	27	32
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2705.6
2.5°	2689.3
5°	2681.1
7.5°	2653.7
10°	2602.0
12.5°	2550.2
15°	2498.3
17.5°	2427.4
20°	2326.5
22.5°	2212.0
25°	2086.5
27.5°	1941.9
30°	1764.7
32.5°	1549.2
35°	1317.3
37.5°	1104.6
40°	921.9
42.5°	777.3
45°	654.6
47.5°	561.8
50°	482.7
52.5°	414.5
55°	357.3
57.5°	308.2
60°	275.4
62.5°	245.5
65°	215.5
67.5°	185.4
70°	160.9
72.5°	133.6
75°	111.9
77.5°	87.3
80°	68.2
82.5°	46.4
85°	27.2
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)