

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: P580678

Luminaire Tested: **HC440D010-HM43040940-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580678  
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-HM43040940-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3507.1 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

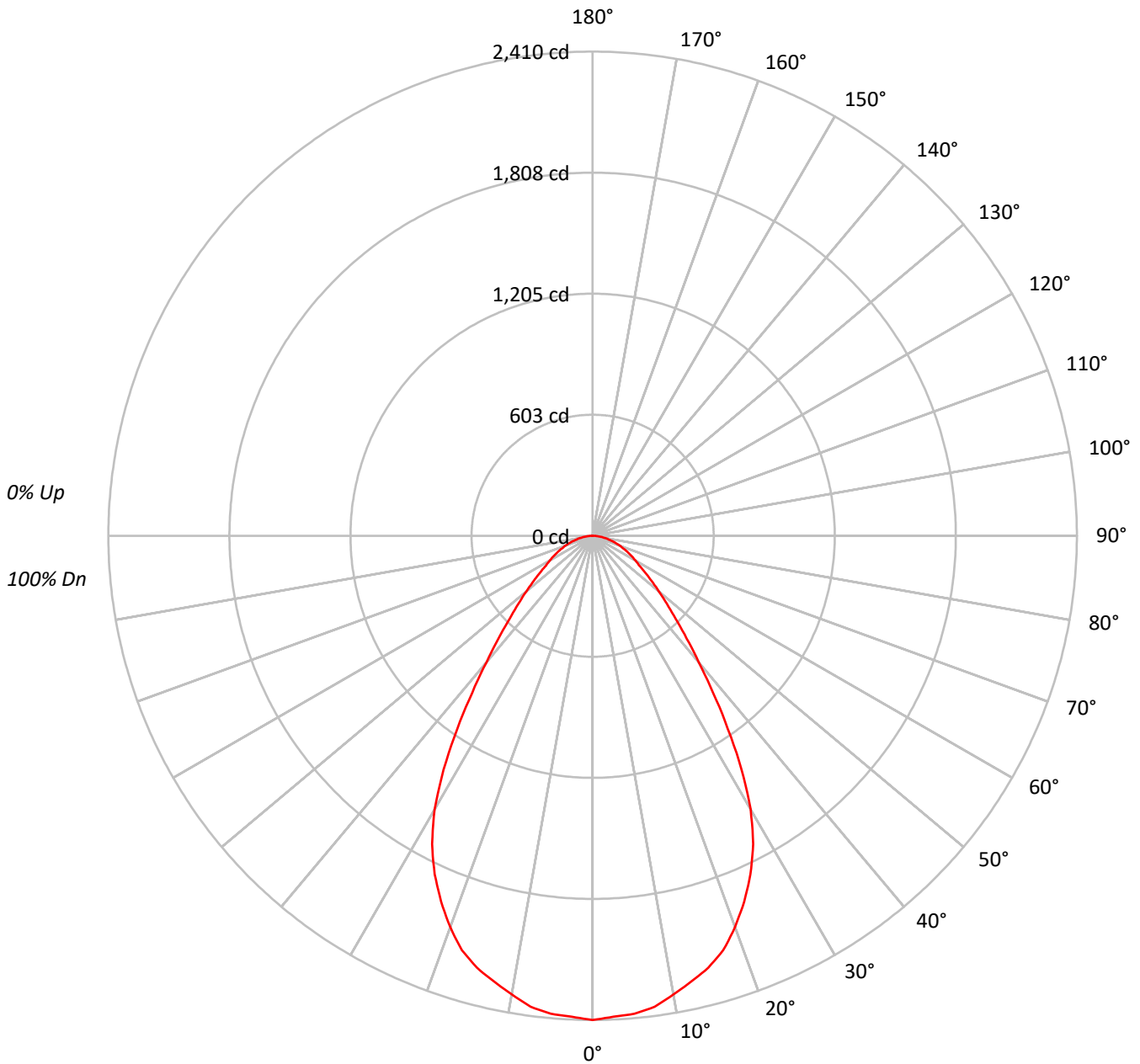
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	297325
5°	295749
10°	290338
15°	284240
20°	272066
25°	253004
30°	223924
35°	176732
40°	132259
45°	101714
50°	82533
55°	68471
60°	60538
65°	56008
70°	51716
75°	47514
80°	43187
85°	34390



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.8	6.4
10°-20°	624.2	17.8
20°-30°	847.6	24.2
30°-40°	734.2	20.9
40°-50°	460.9	13.1
50°-60°	290.0	8.3
60°-70°	190.5	5.4
70°-80°	105.1	3.0
80°-90°	28.8	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°	1697.6	48.4
0°-40°	2431.8	69.3
0°-60°	3182.7	90.8
0°-90°	3507.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2410	
5°	2389	226
15°	2226	624
25°	1859	848
35°	1174	734
45°	583	461
55°	318	290
65°	192	190
75°	100	105
85°	24	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2410.5
2.5°	2395.9
5°	2388.6
7.5°	2364.3
10°	2318.1
12.5°	2272.0
15°	2225.9
17.5°	2162.6
20°	2072.7
22.5°	1970.7
25°	1859.0
27.5°	1730.2
30°	1572.2
32.5°	1380.2
35°	1173.7
37.5°	984.1
40°	821.4
42.5°	692.6
45°	583.1
47.5°	500.5
50°	430.1
52.5°	369.4
55°	318.4
57.5°	274.5
60°	245.4
62.5°	218.7
65°	191.9
67.5°	165.2
70°	143.4
72.5°	119.1
75°	99.7
77.5°	77.8
80°	60.8
82.5°	41.4
85°	24.3
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)