

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: P580617

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040927-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3191.5 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

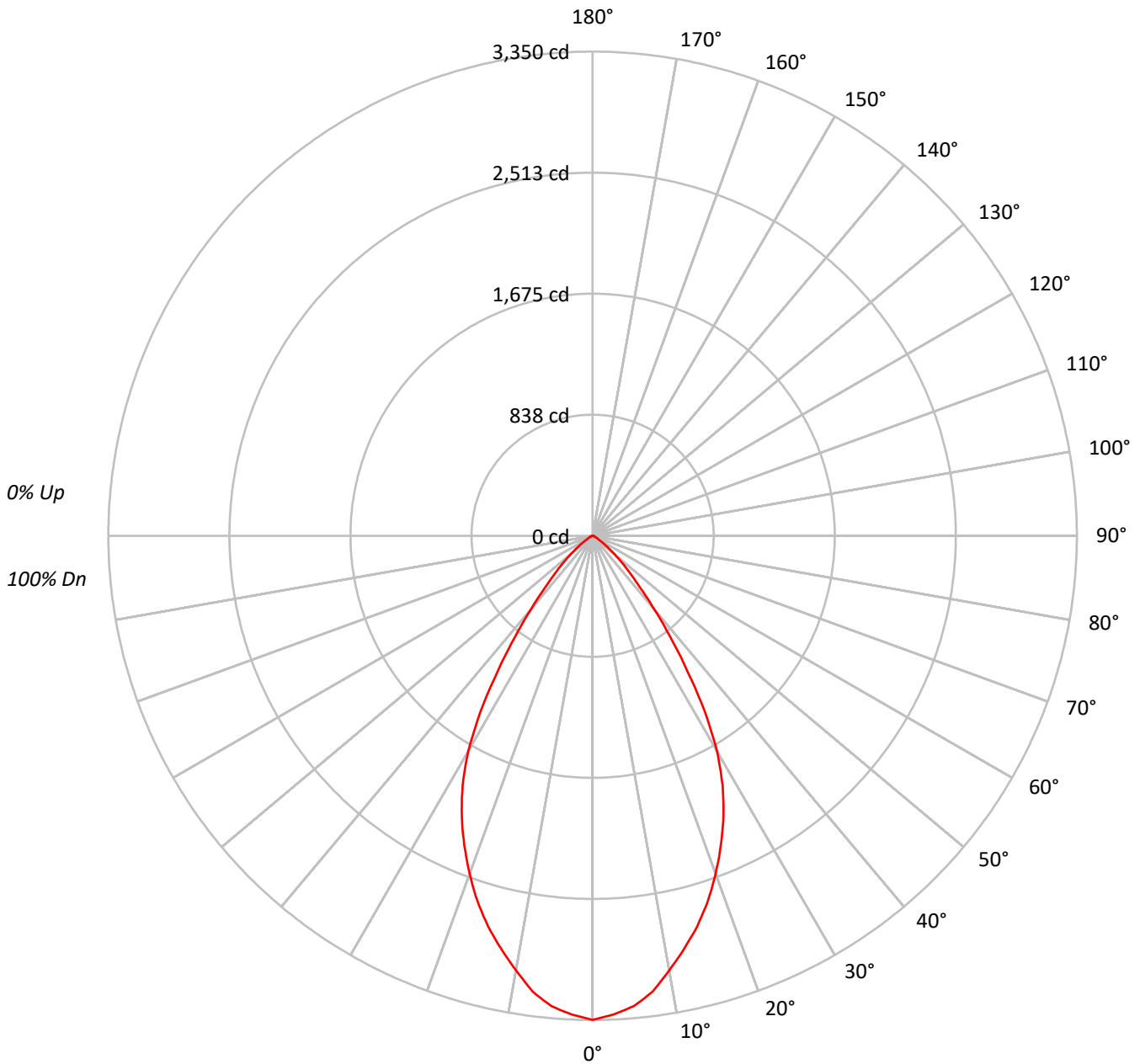
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

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

	0°
0°	413183
5°	404547
10°	382308
15°	357053
20°	326553
25°	291615
30°	244889
35°	172275
40°	106255
45°	63617
50°	37496
55°	18688
60°	9646
65°	6333
70°	3931
75°	3098
80°	1492
85°	2972



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.1	9.6
10°-20°	781.6	24.5
20°-30°	974.7	30.5
30°-40°	718.0	22.5
40°-50°	295.3	9.3
50°-60°	86.3	2.7
60°-70°	22.2	0.7
70°-80°	6.8	0.2
80°-90°	1.4	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°	2061.5	64.6
0°-40°	2779.5	87.1
0°-60°	3161.0	99.0
0°-90°	3191.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3191.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3350	
5°	3267	305
15°	2796	782
25°	2143	975
35°	1144	718
45°	365	295
55°	87	86
65°	22	22
75°	6	7
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3349.8
2.5°	3315.0
5°	3267.3
7.5°	3180.4
10°	3052.4
12.5°	2926.4
15°	2796.1
17.5°	2650.7
20°	2487.8
22.5°	2318.6
25°	2142.7
27.5°	1947.3
30°	1719.4
32.5°	1443.6
35°	1144.1
37.5°	879.2
40°	659.9
42.5°	488.4
45°	364.7
47.5°	269.2
50°	195.4
52.5°	134.6
55°	86.9
57.5°	52.1
60°	39.1
62.5°	28.2
65°	21.7
67.5°	15.2
70°	10.9
72.5°	8.6
75°	6.5
77.5°	4.4
80°	2.1
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)