

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: P580619

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040927-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3467.2 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

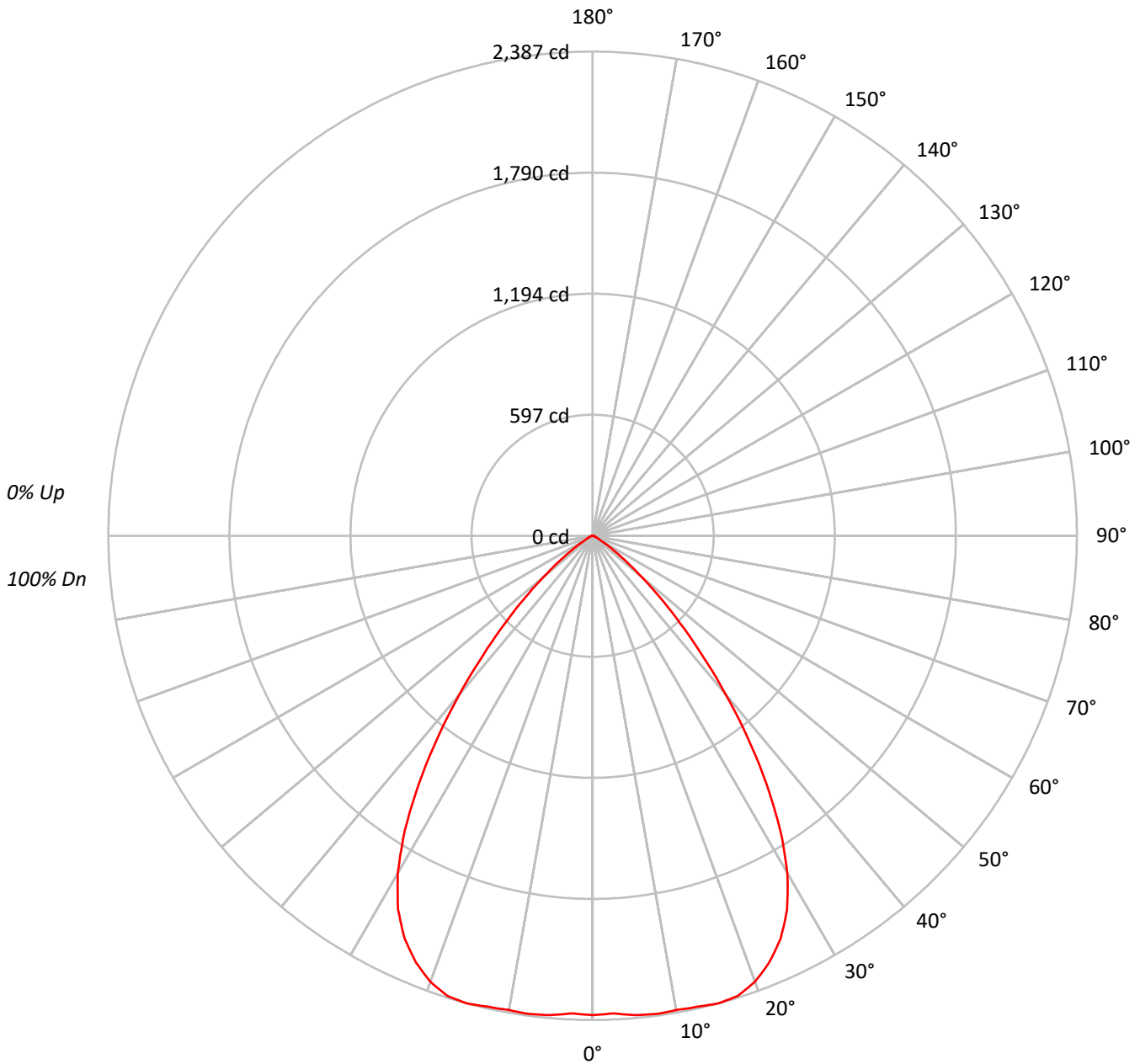
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63				63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58				58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53				53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42

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

	0°
0°	291515
5°	293706
10°	297377
15°	304863
20°	307087
25°	298297
30°	273503
35°	225038
40°	164043
45°	106476
50°	60024
55°	28494
60°	11249
65°	6975
70°	4688
75°	3098
80°	1492
85°	2972



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.5	6.5
10°-20°	673.0	19.4
20°-30°	998.3	28.8
30°-40°	922.0	26.6
40°-50°	481.4	13.9
50°-60°	131.9	3.8
60°-70°	25.4	0.7
70°-80°	7.1	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°	1897.8	54.7
0°-40°	2819.8	81.3
0°-60°	3433.2	99.0
0°-90°	3467.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3467.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2363	
5°	2372	227
15°	2387	673
25°	2192	998
35°	1494	922
45°	610	481
55°	132	132
65°	24	25
75°	6	7
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2363.4
2.5°	2356.9
5°	2372.1
7.5°	2378.6
10°	2374.3
12.5°	2378.6
15°	2387.4
17.5°	2378.6
20°	2339.5
22.5°	2276.5
25°	2191.8
27.5°	2076.7
30°	1920.3
32.5°	1722.6
35°	1494.5
37.5°	1255.6
40°	1018.8
42.5°	801.6
45°	610.4
47.5°	447.5
50°	312.8
52.5°	208.5
55°	132.5
57.5°	78.2
60°	45.6
62.5°	32.6
65°	23.9
67.5°	17.4
70°	13.0
72.5°	8.7
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)