

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: P580563

Luminaire Tested: **HC440D010-HM43040830-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580563  
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-HM43040830-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3995.8 lumens  
Efficiency: N/A  
Efficacy: 97.5 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

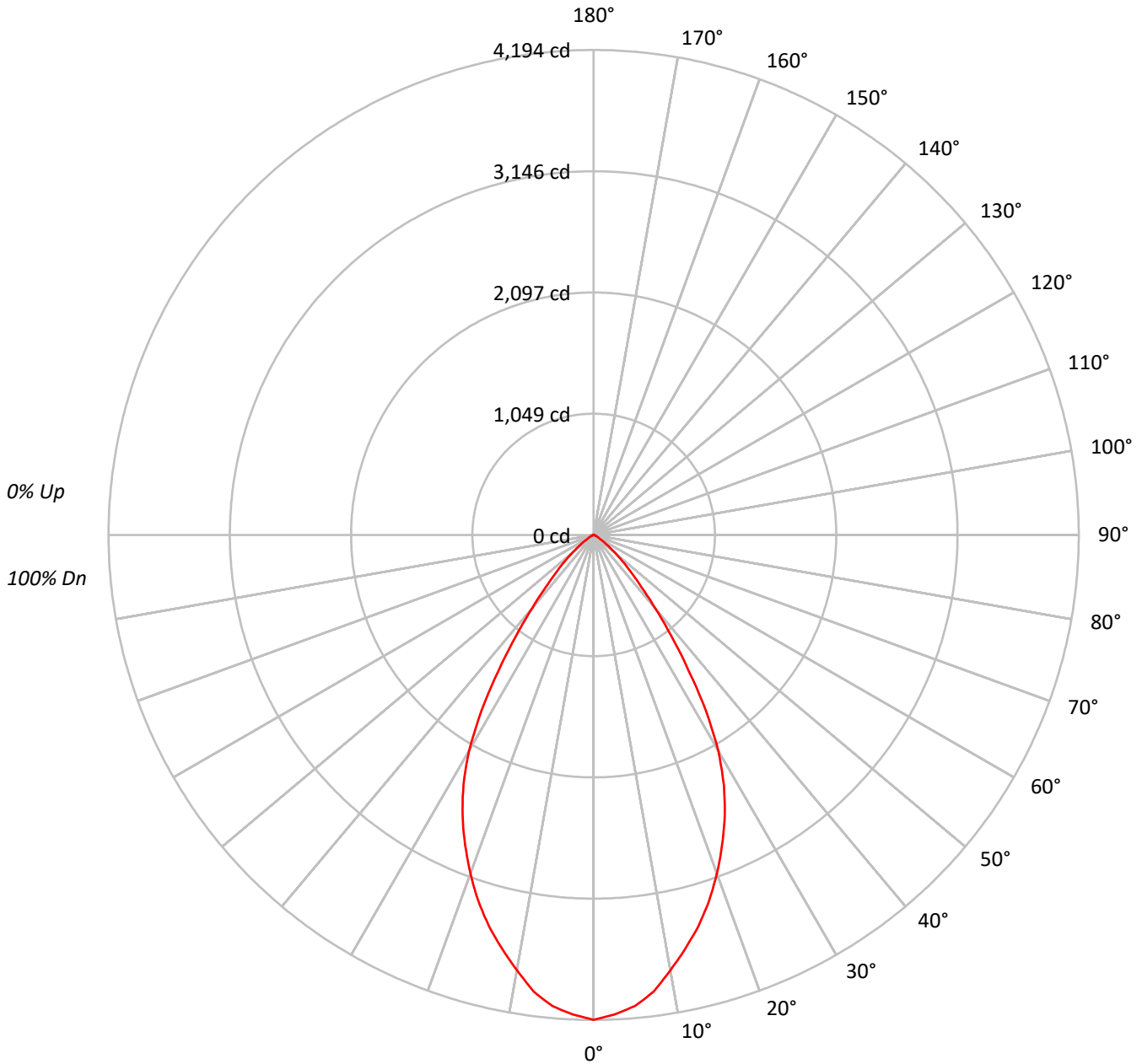
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	517299
5°	506473
10°	478637
15°	447041
20°	408854
25°	365107
30°	306603
35°	215687
40°	133048
45°	79648
50°	46937
55°	23376
60°	12063
65°	7909
70°	4905
75°	3908
80°	1918
85°	3821



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.0	9.6
10°-20°	978.6	24.5
20°-30°	1220.4	30.5
30°-40°	899.0	22.5
40°-50°	369.7	9.3
50°-60°	108.0	2.7
60°-70°	27.8	0.7
70°-80°	8.6	0.2
80°-90°	1.8	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°	2581.0	64.6
0°-40°	3479.9	87.1
0°-60°	3957.6	99.0
0°-90°	3995.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4194	
5°	4090	382
15°	3501	979
25°	2683	1220
35°	1432	899
45°	457	370
55°	109	108
65°	27	28
75°	8	9
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4193.9
2.5°	4150.4
5°	4090.5
7.5°	3981.8
10°	3821.5
12.5°	3663.9
15°	3500.8
17.5°	3318.6
20°	3114.8
22.5°	2902.8
25°	2682.7
27.5°	2438.1
30°	2152.7
32.5°	1807.5
35°	1432.4
37.5°	1100.8
40°	826.3
42.5°	611.5
45°	456.6
47.5°	337.1
50°	244.6
52.5°	168.5
55°	108.7
57.5°	65.2
60°	48.9
62.5°	35.3
65°	27.1
67.5°	19.1
70°	13.6
72.5°	10.9
75°	8.2
77.5°	5.4
80°	2.7
82.5°	2.7
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)