

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: P580546

Luminaire Tested: **HC440D010-HM43040827-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040827-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3487.3 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

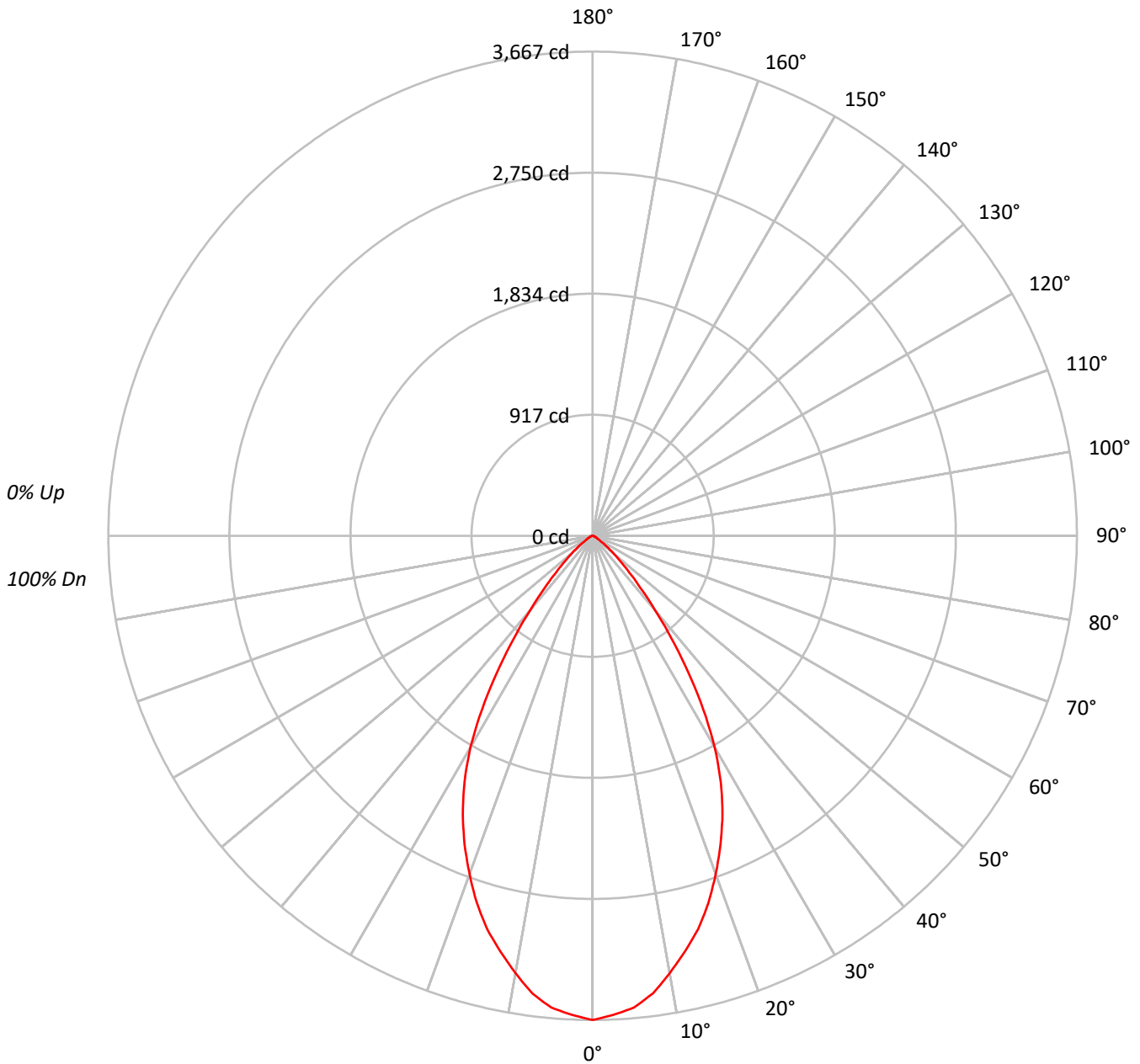
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	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	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	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	48	48	48	48

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

	0°
0°	452321
5°	444106
10°	421236
15°	393868
20°	357727
25°	316548
30°	263291
35°	189863
40°	118492
45°	68344
50°	38551
55°	18365
60°	10534
65°	8055
70°	5410
75°	3574
80°	3552
85°	3538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.3	9.6
10°-20°	860.4	24.7
20°-30°	1058.2	30.3
30°-40°	785.9	22.5
40°-50°	319.5	9.2
50°-60°	88.5	2.5
60°-70°	27.5	0.8
70°-80°	9.2	0.3
80°-90°	2.7	0.1
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°	2253.9	64.6
0°-40°	3039.8	87.2
0°-60°	3447.8	98.9
0°-90°	3487.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3667	
5°	3587	335
15°	3084	860
25°	2326	1058
35°	1261	786
45°	392	320
55°	85	88
65°	28	28
75°	8	9
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3667.1
2.5°	3631.9
5°	3586.8
7.5°	3496.3
10°	3363.2
12.5°	3225.0
15°	3084.4
17.5°	2916.1
20°	2725.3
22.5°	2531.8
25°	2325.9
27.5°	2102.3
30°	1848.6
32.5°	1559.8
35°	1260.9
37.5°	979.5
40°	735.9
42.5°	537.5
45°	391.8
47.5°	281.3
50°	200.9
52.5°	138.1
55°	85.4
57.5°	55.3
60°	42.7
62.5°	35.2
65°	27.6
67.5°	20.1
70°	15.0
72.5°	12.6
75°	7.5
77.5°	5.0
80°	5.0
82.5°	2.5
85°	2.5
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)