

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: P592605

Luminaire Tested: **HC410D010-HM40525850-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592605  
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: HC410D010-HM40525850-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1047.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

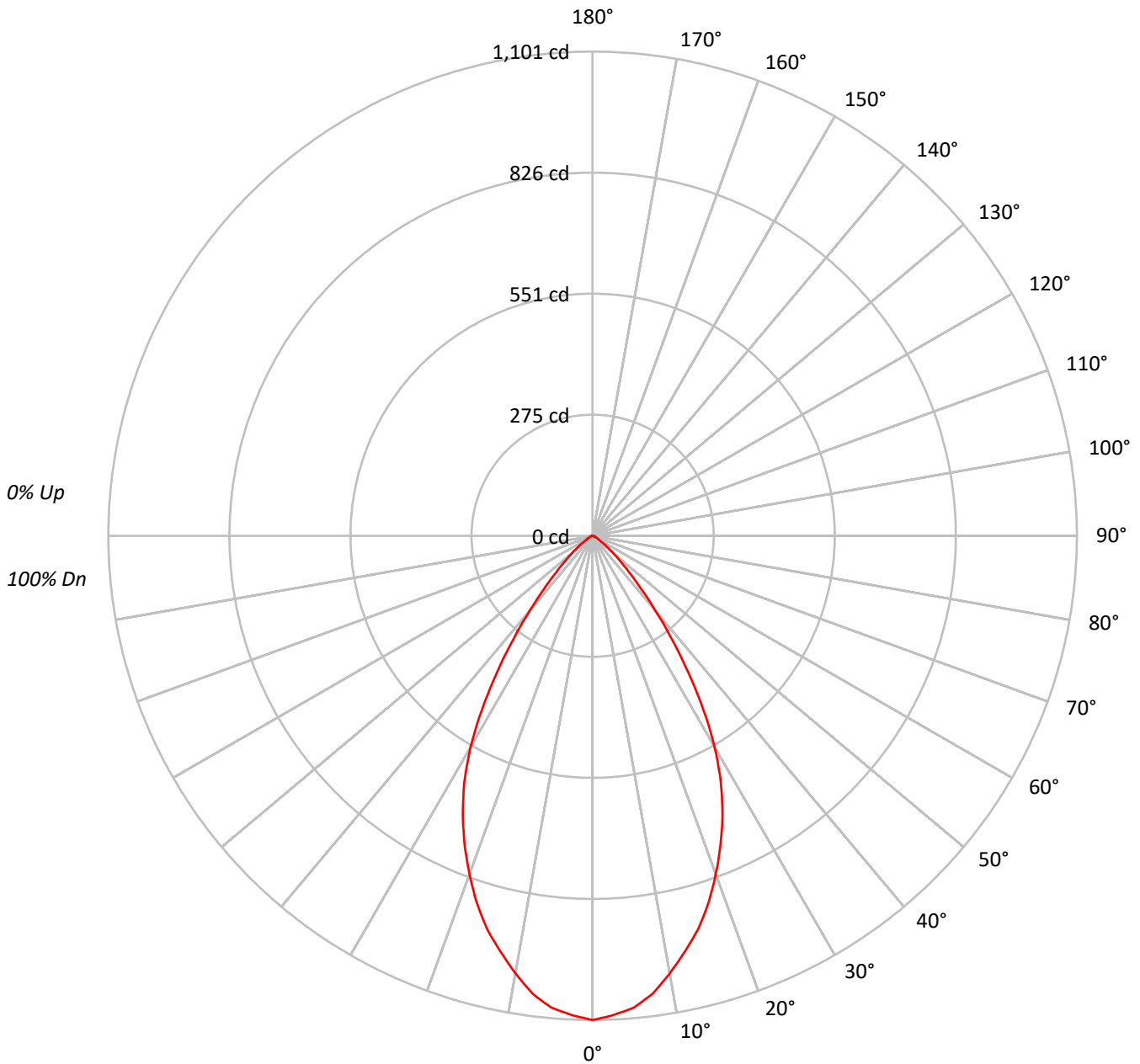
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	80	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	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°	135828
5°	133363
10°	126501
15°	118273
20°	107411
25°	95064
30°	79061
35°	57009
40°	35585
45°	20531
50°	11571
55°	5505
60°	3182
65°	2422
70°	1659
75°	1096
80°	1065
85°	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.7	9.6
10°-20°	258.4	24.7
20°-30°	317.8	30.3
30°-40°	236.0	22.5
40°-50°	95.9	9.2
50°-60°	26.6	2.5
60°-70°	8.3	0.8
70°-80°	2.8	0.3
80°-90°	0.9	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°	676.9	64.6
0°-40°	912.9	87.2
0°-60°	1035.4	98.9
0°-90°	1047.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1101	
5°	1077	101
15°	926	258
25°	698	318
35°	379	236
45°	118	96
55°	26	27
65°	8	8
75°	2	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1101.2
2.5°	1090.7
5°	1077.1
7.5°	1049.9
10°	1010.0
12.5°	968.4
15°	926.2
17.5°	875.7
20°	818.3
22.5°	760.3
25°	698.5
27.5°	631.4
30°	555.1
32.5°	468.4
35°	378.6
37.5°	294.2
40°	221.0
42.5°	161.4
45°	117.7
47.5°	84.4
50°	60.3
52.5°	41.5
55°	25.6
57.5°	16.6
60°	12.9
62.5°	10.6
65°	8.3
67.5°	6.0
70°	4.6
72.5°	3.8
75°	2.3
77.5°	1.5
80°	1.5
82.5°	0.8
85°	0.8
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)