

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: P580978

Luminaire Tested: **HC405D010-HM40525827-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580978  
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: HC405D010-HM40525827-41NDH  
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: 554.2 lumens  
Efficiency: N/A  
Efficacy: 92.4 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

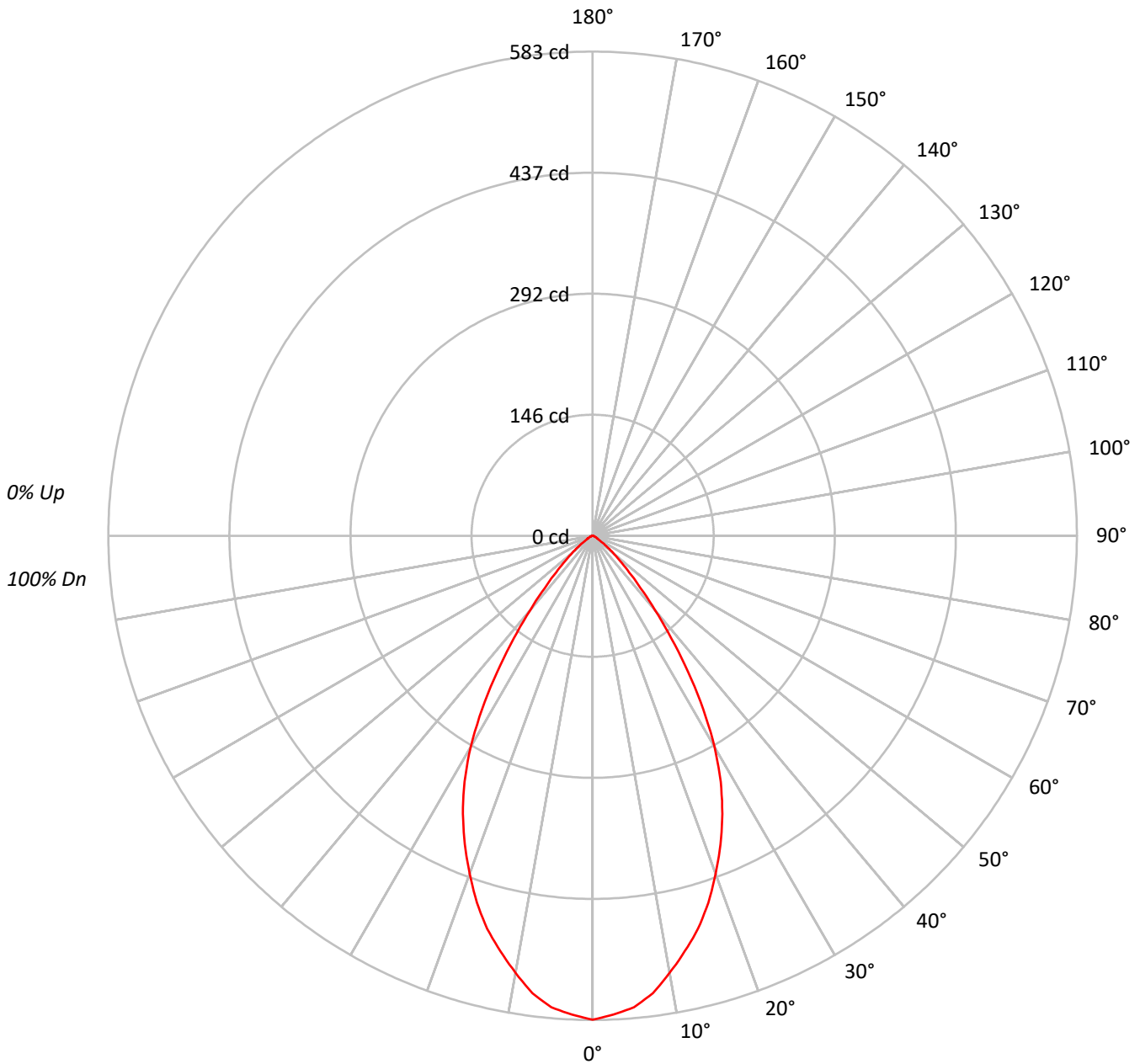
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	71873
5°	70563
10°	66933
15°	62584
20°	56836
25°	50301
30°	41831
35°	30161
40°	18823
45°	10867
50°	6121
55°	2925
60°	1678
65°	1284
70°	866
75°	572
80°	568
85°	708



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.3	9.6
10°-20°	136.7	24.7
20°-30°	168.1	30.3
30°-40°	124.9	22.5
40°-50°	50.8	9.2
50°-60°	14.0	2.5
60°-70°	4.4	0.8
70°-80°	1.5	0.3
80°-90°	0.5	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°	358.1	64.6
0°-40°	483.0	87.2
0°-60°	547.8	98.8
0°-90°	554.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	583	
5°	570	53
15°	490	137
25°	370	168
35°	200	125
45°	62	51
55°	14	14
65°	4	4
75°	1	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	582.7
2.5°	577.0
5°	569.9
7.5°	555.6
10°	534.4
12.5°	512.5
15°	490.1
17.5°	463.3
20°	433.0
22.5°	402.2
25°	369.6
27.5°	334.0
30°	293.7
32.5°	247.9
35°	200.3
37.5°	155.6
40°	116.9
42.5°	85.4
45°	62.3
47.5°	44.7
50°	31.9
52.5°	21.9
55°	13.6
57.5°	8.7
60°	6.8
62.5°	5.6
65°	4.4
67.5°	3.2
70°	2.4
72.5°	2.0
75°	1.2
77.5°	0.8
80°	0.8
82.5°	0.5
85°	0.5
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)