

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: P581084

Luminaire Tested: **HC405D010-HM40525935-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC405D010-HM40525935-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 646.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

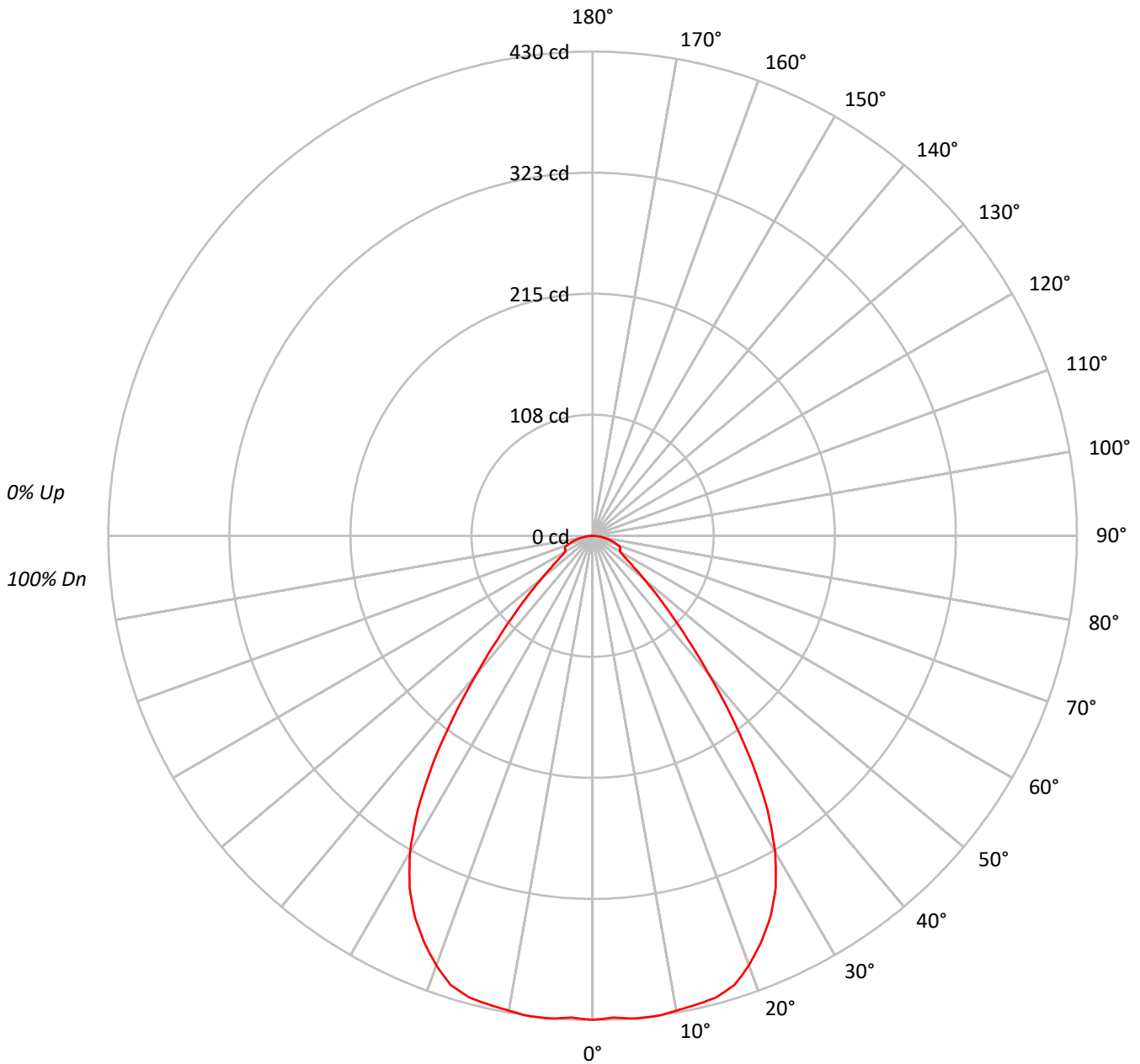
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	53026
5°	53291
10°	53644
15°	54195
20°	53292
25°	50832
30°	46189
35°	37253
40°	25843
45°	16973
50°	11360
55°	8107
60°	6907
65°	7939
70°	8511
75°	8245
80°	7387
85°	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	6.3
10°-20°	119.2	18.5
20°-30°	170.3	26.4
30°-40°	152.1	23.6
40°-50°	78.0	12.1
50°-60°	35.5	5.5
60°-70°	26.4	4.1
70°-80°	18.0	2.8
80°-90°	5.3	0.8
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°	330.6	51.2
0°-40°	482.7	74.7
0°-60°	596.2	92.3
0°-90°	646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	430	
5°	430	41
15°	424	119
25°	374	170
35°	247	152
45°	97	78
55°	38	35
65°	27	26
75°	17	18
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	429.9
2.5°	428.3
5°	430.4
7.5°	430.4
10°	428.3
12.5°	426.4
15°	424.4
17.5°	418.4
20°	406.0
22.5°	390.8
25°	373.5
27.5°	352.0
30°	324.3
32.5°	289.1
35°	247.4
37.5°	202.9
40°	160.5
42.5°	125.3
45°	97.3
47.5°	76.0
50°	59.2
52.5°	46.4
55°	37.7
57.5°	31.7
60°	28.0
62.5°	27.2
65°	27.2
67.5°	26.4
70°	23.6
72.5°	20.4
75°	17.3
77.5°	13.6
80°	10.4
82.5°	7.6
85°	4.8
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)