

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: P581516

Luminaire Tested: **HC407D010-HM40525935-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581516  
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: HC407D010-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: 854.5 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

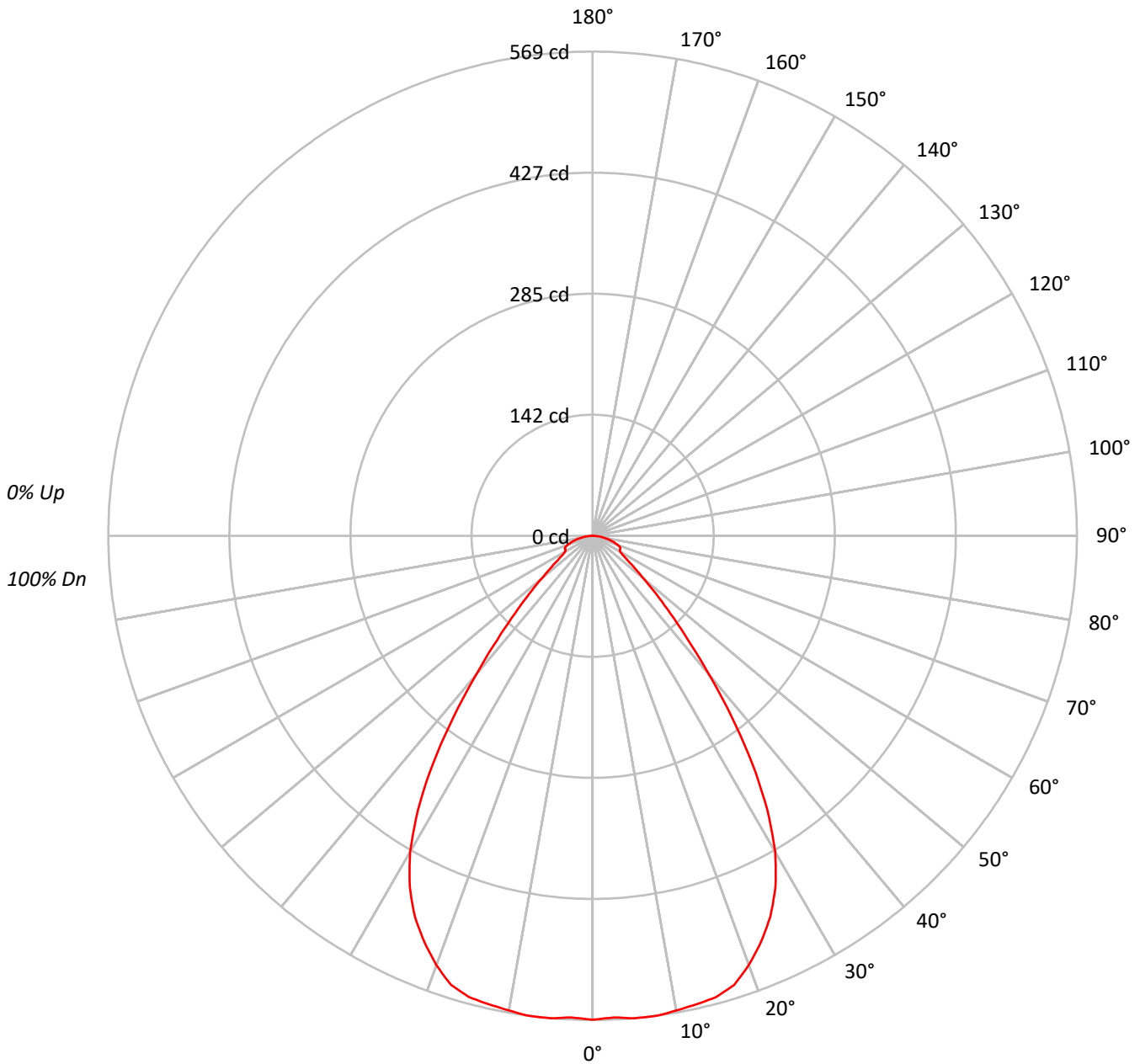
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	70147
5°	70477
10°	70953
15°	71676
20°	70474
25°	67232
30°	61087
35°	49269
40°	34200
45°	22450
50°	15044
55°	10688
60°	9152
65°	10507
70°	11288
75°	10866
80°	9802
85°	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.2	6.3
10°-20°	157.7	18.5
20°-30°	225.3	26.4
30°-40°	201.2	23.6
40°-50°	103.2	12.1
50°-60°	46.9	5.5
60°-70°	35.0	4.1
70°-80°	23.8	2.8
80°-90°	7.0	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°	437.2	51.2
0°-40°	638.4	74.7
0°-60°	788.6	92.3
0°-90°	854.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	854.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	569	
5°	569	54
15°	561	158
25°	494	225
35°	327	201
45°	129	103
55°	50	47
65°	36	35
75°	23	24
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	568.7
2.5°	566.5
5°	569.2
7.5°	569.2
10°	566.5
12.5°	563.9
15°	561.3
17.5°	553.3
20°	536.9
22.5°	516.8
25°	494.0
27.5°	465.4
30°	428.9
32.5°	382.3
35°	327.2
37.5°	268.5
40°	212.4
42.5°	165.7
45°	128.7
47.5°	100.6
50°	78.4
52.5°	61.5
55°	49.7
57.5°	41.9
60°	37.1
62.5°	36.0
65°	36.0
67.5°	34.9
70°	31.3
72.5°	27.0
75°	22.8
77.5°	18.0
80°	13.8
82.5°	10.0
85°	6.4
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)