

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: P579783

Luminaire Tested: **HC410D010-HM40525930-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC410D010-HM40525930-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 898.9 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

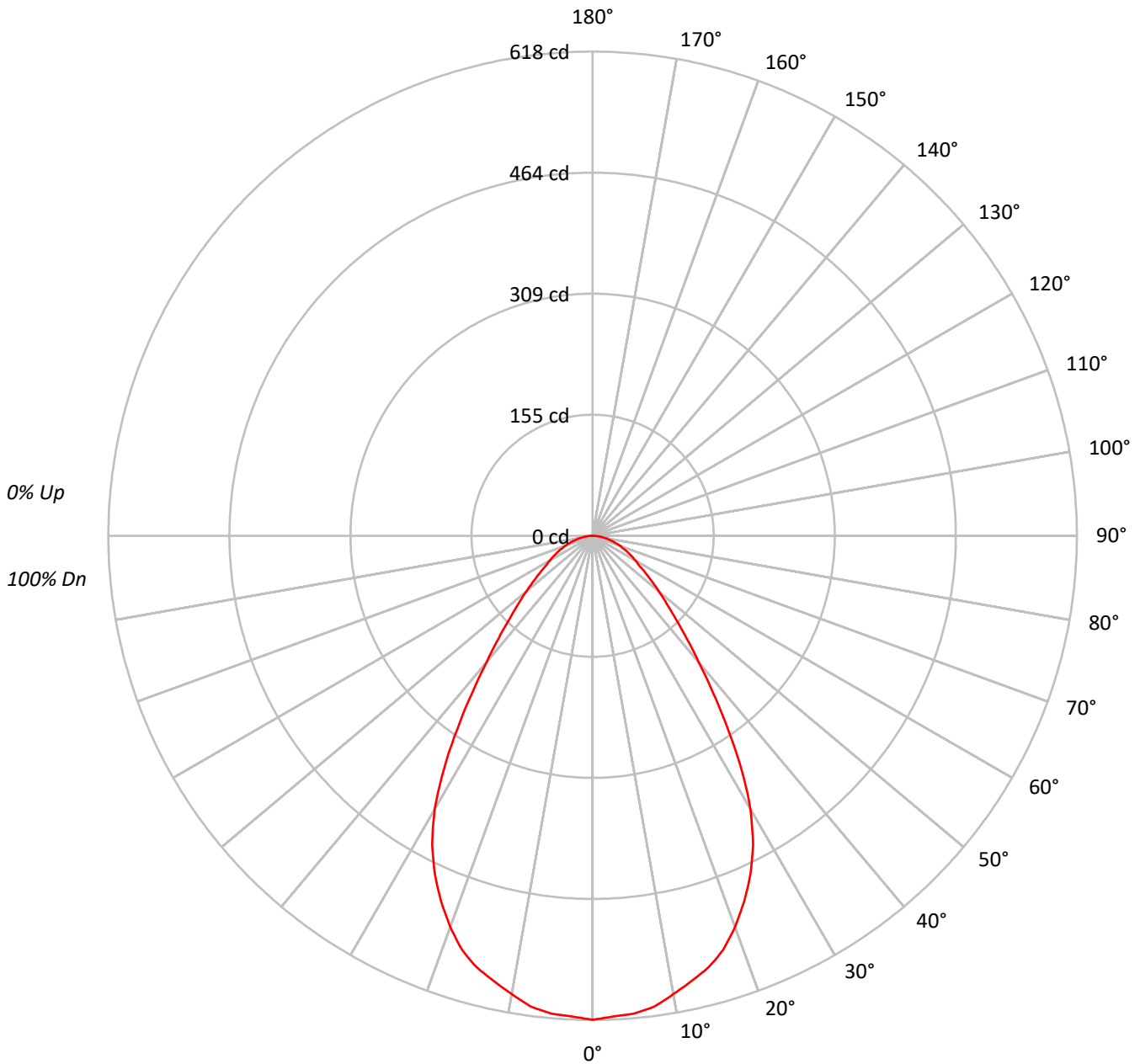
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	76203
5°	75801
10°	74410
15°	72851
20°	69726
25°	64850
30°	57398
35°	45294
40°	33894
45°	26078
50°	21166
55°	17548
60°	15517
65°	14360
70°	13271
75°	12153
80°	11081
85°	8916



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.9	6.4
10°-20°	160.0	17.8
20°-30°	217.3	24.2
30°-40°	188.2	20.9
40°-50°	118.2	13.1
50°-60°	74.3	8.3
60°-70°	48.8	5.4
70°-80°	26.9	3.0
80°-90°	7.4	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°	435.1	48.4
0°-40°	623.3	69.3
0°-60°	815.8	90.8
0°-90°	898.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	898.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	618	
5°	612	58
15°	570	160
25°	476	217
35°	301	188
45°	150	118
55°	82	74
65°	49	49
75°	26	27
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	617.8
2.5°	614.1
5°	612.2
7.5°	606.0
10°	594.1
12.5°	582.3
15°	570.5
17.5°	554.3
20°	531.2
22.5°	505.2
25°	476.5
27.5°	443.5
30°	403.0
32.5°	353.8
35°	300.8
37.5°	252.3
40°	210.5
42.5°	177.5
45°	149.5
47.5°	128.3
50°	110.3
52.5°	94.7
55°	81.6
57.5°	70.3
60°	62.9
62.5°	56.1
65°	49.2
67.5°	42.3
70°	36.8
72.5°	30.5
75°	25.5
77.5°	19.9
80°	15.6
82.5°	10.6
85°	6.3
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)