

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: P581470

Luminaire Tested: **HC407D010-HM40525840-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581470  
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: HC407D010-HM40525840-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 879.5 lumens  
Efficiency: N/A  
Efficacy: 109.9 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

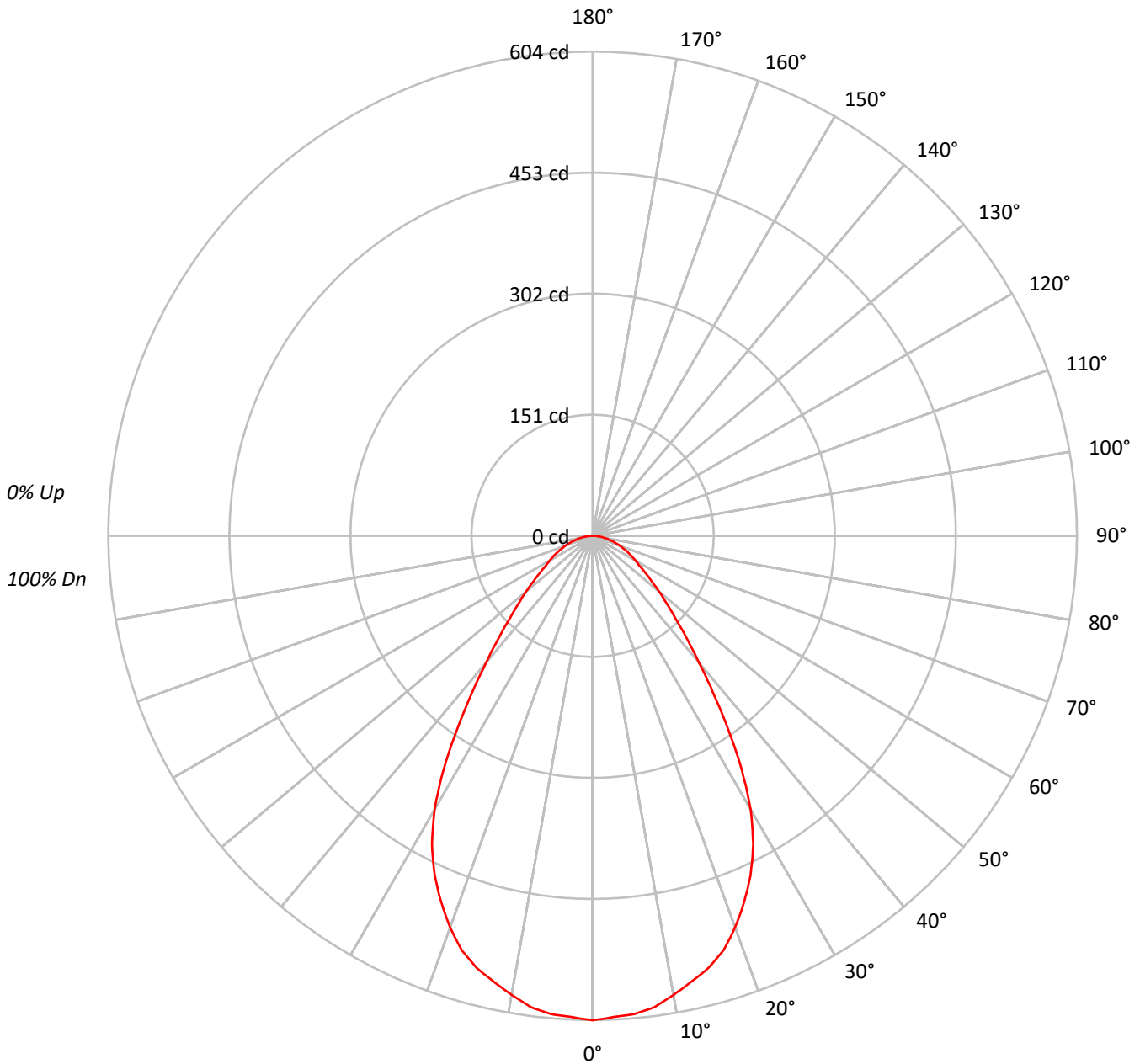
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	74562
5°	74166
10°	72819
15°	71280
20°	68230
25°	63448
30°	56159
35°	44330
40°	33169
45°	25503
50°	20705
55°	17182
60°	15196
65°	14038
70°	12983
75°	11914
80°	10797
85°	8633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.6	6.4
10°-20°	156.5	17.8
20°-30°	212.6	24.2
30°-40°	184.1	20.9
40°-50°	115.6	13.1
50°-60°	72.7	8.3
60°-70°	47.8	5.4
70°-80°	26.3	3.0
80°-90°	7.2	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°	425.7	48.4
0°-40°	609.9	69.3
0°-60°	798.2	90.8
0°-90°	879.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	879.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	604	
5°	599	57
15°	558	157
25°	466	213
35°	294	184
45°	146	116
55°	80	73
65°	48	48
75°	25	26
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	604.5
2.5°	600.9
5°	599.0
7.5°	593.0
10°	581.4
12.5°	569.8
15°	558.2
17.5°	542.4
20°	519.8
22.5°	494.2
25°	466.2
27.5°	433.9
30°	394.3
32.5°	346.2
35°	294.4
37.5°	246.8
40°	206.0
42.5°	173.7
45°	146.2
47.5°	125.5
50°	107.9
52.5°	92.6
55°	79.9
57.5°	68.8
60°	61.6
62.5°	54.9
65°	48.1
67.5°	41.4
70°	36.0
72.5°	29.8
75°	25.0
77.5°	19.5
80°	15.2
82.5°	10.4
85°	6.1
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)