

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: P581544

Luminaire Tested: **HC407D010-HM40525950-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC407D010-HM40525950-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 775.7 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

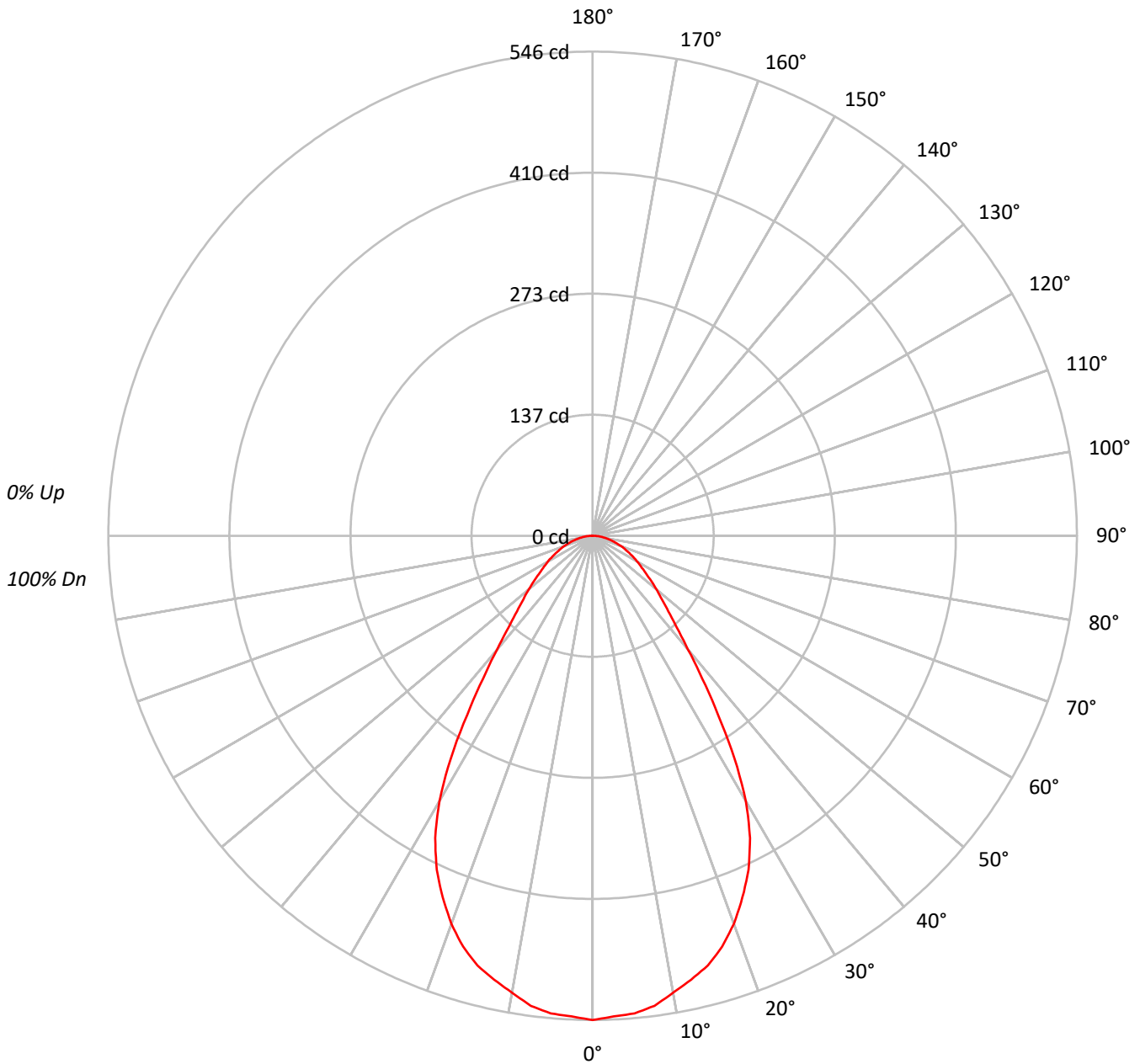
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

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

	0°
0°	67359
5°	66948
10°	65517
15°	64065
20°	61115
25°	56575
30°	49209
35°	37147
40°	26938
45°	21037
50°	17999
55°	15569
60°	14357
65°	13134
70°	12262
75°	11247
80°	10513
85°	10190



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	6.6
10°-20°	140.5	18.1
20°-30°	189.0	24.4
30°-40°	155.4	20.0
40°-50°	95.4	12.3
50°-60°	66.1	8.5
60°-70°	45.1	5.8
70°-80°	25.1	3.2
80°-90°	8.0	1.0
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°	380.6	49.1
0°-40°	536.0	69.1
0°-60°	697.5	89.9
0°-90°	775.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	775.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	546	
5°	541	51
15°	502	141
25°	416	189
35°	247	155
45°	121	95
55°	72	66
65°	45	45
75°	24	25
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	546.1
2.5°	542.4
5°	540.7
7.5°	534.6
10°	523.1
12.5°	512.7
15°	501.7
17.5°	485.8
20°	465.6
22.5°	441.4
25°	415.7
27.5°	384.4
30°	345.5
32.5°	297.8
35°	246.7
37.5°	202.9
40°	167.3
42.5°	139.9
45°	120.6
47.5°	105.8
50°	93.8
52.5°	82.8
55°	72.4
57.5°	64.8
60°	58.2
62.5°	51.6
65°	45.0
67.5°	39.5
70°	34.0
72.5°	28.6
75°	23.6
77.5°	18.7
80°	14.8
82.5°	10.9
85°	7.2
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)