

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: P581416

Luminaire Tested: **HC407D010-HM40525827-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581416  
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-HM40525827-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 762.4 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

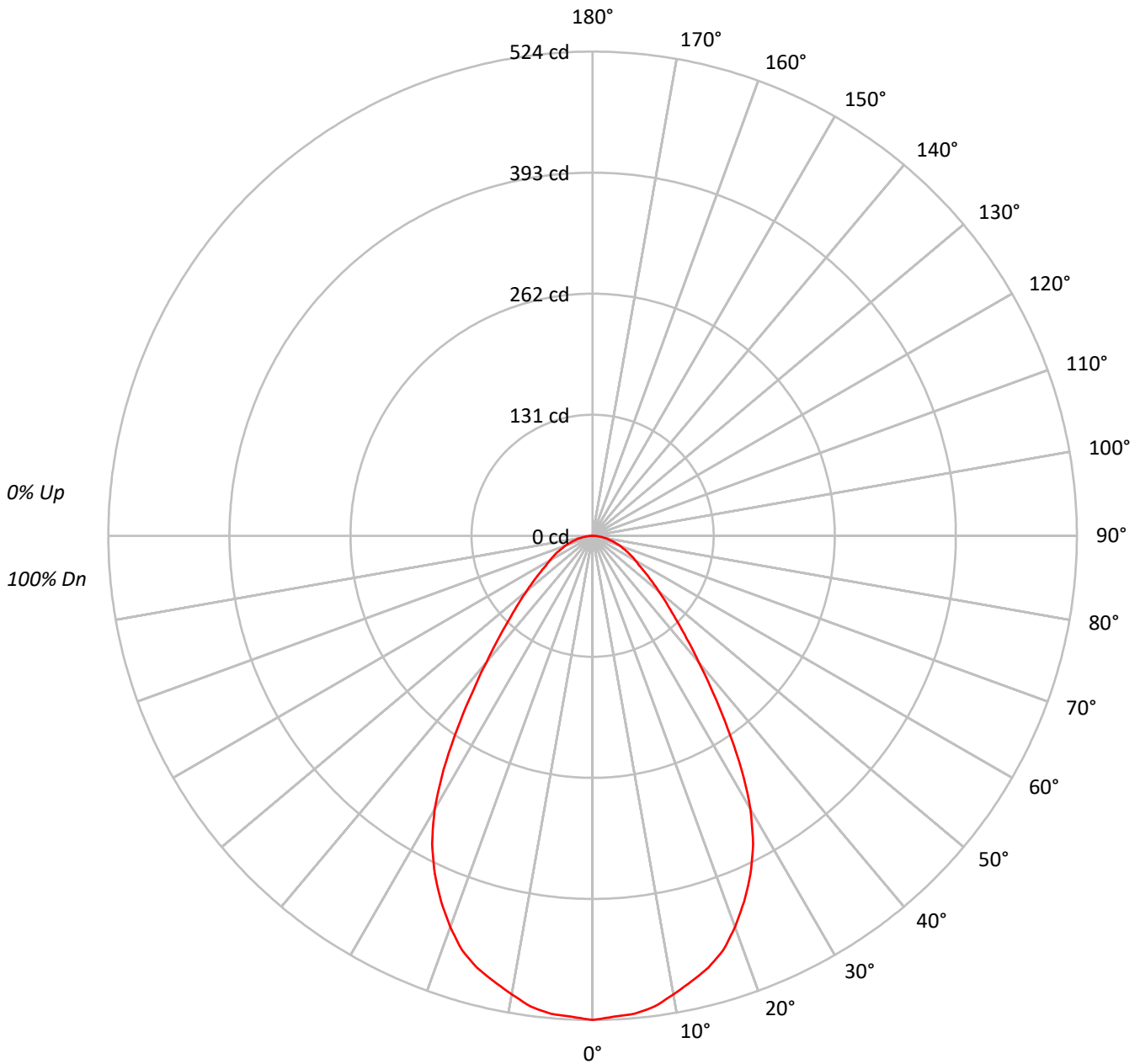
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P581416

CATALOG NUMBER: HC407D010-HM40525827-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581416

CATALOG NUMBER: HC407D010-HM40525827-41MDW

**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°	64633
5°	64298
10°	63113
15°	61792
20°	59133
25°	54997
30°	48667
35°	38412
40°	28758
45°	22119
50°	17942
55°	14881
60°	13173
65°	12200
70°	11252
75°	10294
80°	9376
85°	7359



TEST NUMBER: P581416

CATALOG NUMBER: HC407D010-HM40525827-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	6.4
10°-20°	135.7	17.8
20°-30°	184.2	24.2
30°-40°	159.6	20.9
40°-50°	100.2	13.1
50°-60°	63.0	8.3
60°-70°	41.5	5.4
70°-80°	22.8	3.0
80°-90°	6.3	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°	369.0	48.4
0°-40°	528.6	69.3
0°-60°	691.9	90.7
0°-90°	762.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	524	
5°	519	49
15°	484	136
25°	404	184
35°	255	160
45°	127	100
55°	69	63
65°	42	41
75°	22	23
85°	5	6
90°	0	



TEST NUMBER: P581416

CATALOG NUMBER: HC407D010-HM40525827-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	524.0
2.5°	520.9
5°	519.3
7.5°	513.9
10°	503.9
12.5°	493.9
15°	483.9
17.5°	470.1
20°	450.5
22.5°	428.3
25°	404.1
27.5°	376.1
30°	341.7
32.5°	300.1
35°	255.1
37.5°	213.9
40°	178.6
42.5°	150.6
45°	126.8
47.5°	108.8
50°	93.5
52.5°	80.3
55°	69.2
57.5°	59.7
60°	53.4
62.5°	47.6
65°	41.8
67.5°	36.0
70°	31.2
72.5°	25.8
75°	21.6
77.5°	17.0
80°	13.2
82.5°	9.0
85°	5.2
87.5°	2.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)