

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: P579803

Luminaire Tested: **HC410D010-HM40525935-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579803  
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: HC410D010-HM40525935-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 927.2 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

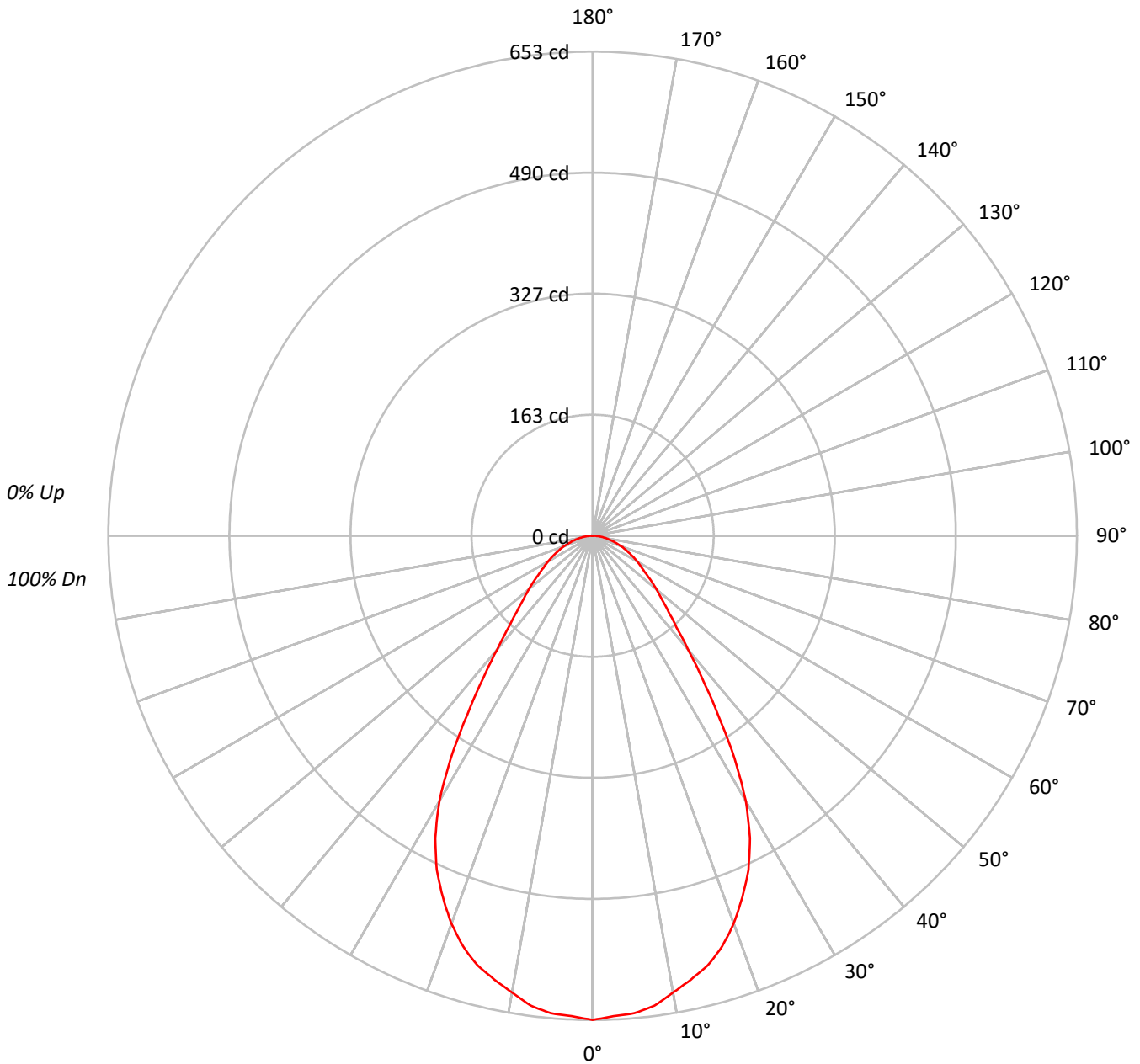
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	80545
5°	80035
10°	78330
15°	76593
20°	73060
25°	67640
30°	58822
35°	44420
40°	32187
45°	25154
50°	21511
55°	18602
60°	17145
65°	15673
70°	14642
75°	13439
80°	12644
85°	12029



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	6.6
10°-20°	168.0	18.1
20°-30°	225.9	24.4
30°-40°	185.8	20.0
40°-50°	114.1	12.3
50°-60°	79.0	8.5
60°-70°	53.8	5.8
70°-80°	30.0	3.2
80°-90°	9.6	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°	455.0	49.1
0°-40°	640.8	69.1
0°-60°	833.8	89.9
0°-90°	927.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	653	
5°	646	61
15°	600	168
25°	497	226
35°	295	186
45°	144	114
55°	86	79
65°	54	54
75°	28	30
85°	8	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	653.0
2.5°	648.3
5°	646.4
7.5°	639.2
10°	625.4
12.5°	612.9
15°	599.8
17.5°	580.8
20°	556.6
22.5°	527.7
25°	497.0
27.5°	459.5
30°	413.0
32.5°	356.0
35°	295.0
37.5°	242.5
40°	199.9
42.5°	167.2
45°	144.2
47.5°	126.5
50°	112.1
52.5°	99.0
55°	86.5
57.5°	77.4
60°	69.5
62.5°	61.6
65°	53.7
67.5°	47.2
70°	40.6
72.5°	34.1
75°	28.2
77.5°	22.3
80°	17.8
82.5°	13.1
85°	8.5
87.5°	4.6
90°	0.0



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— 0°-180°







(END OF REPORT)