

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: P579786

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC410D010-HM40525930-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 927.5 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

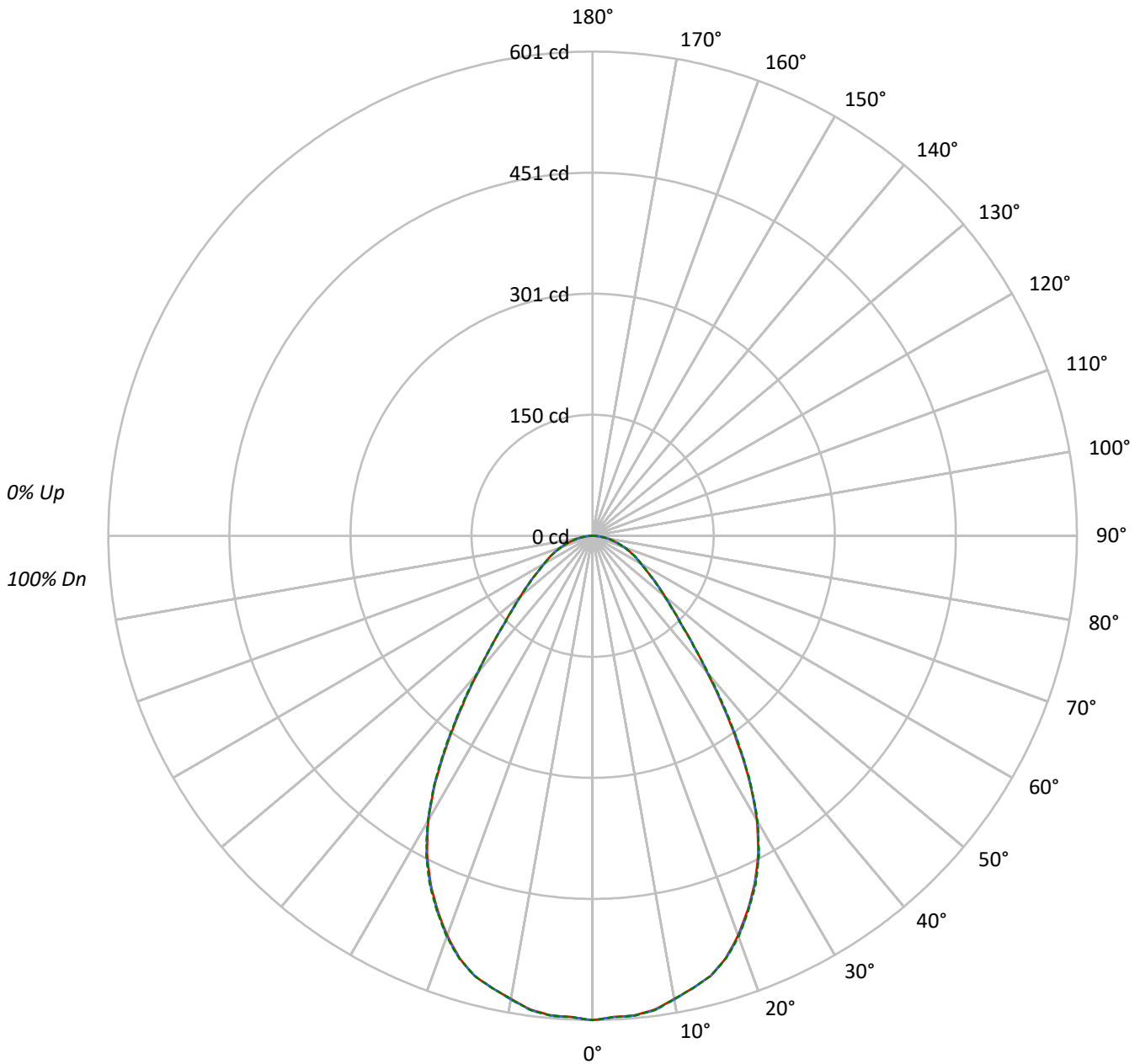
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P579786

CATALOG NUMBER: HC410D010-HM40525930-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P579786

CATALOG NUMBER: HC410D010-HM40525930-41WDW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

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

	0°	45°	90°
0°	74155	74155	74155
5°	73968	74042	74042
10°	73120	73195	73120
15°	72238	72238	72238
20°	69267	69424	69516
25°	64782	64877	65054
30°	58053	58239	58239
35°	47146	47522	47597
40°	35568	35762	35874
45°	27247	27142	27142
50°	22451	22336	22336
55°	19268	19139	19139
60°	17170	17046	17046
65°	16169	16169	16169
70°	15039	15039	15039
75°	13678	13916	13678
80°	12857	12360	12857
85°	10614	10614	10614



TEST NUMBER: P579786

CATALOG NUMBER: HC410D010-HM40525930-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.6	6.1
10°-20°	158.5	17.1
20°-30°	217.8	23.5
30°-40°	195.9	21.1
40°-50°	123.7	13.3
50°-60°	80.8	8.7
60°-70°	54.7	5.9
70°-80°	30.8	3.3
80°-90°	8.6	0.9
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°	433.0	46.7
0°-40°	628.8	67.8
0°-60°	833.4	89.8
0°-90°	927.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	601	601	601	601	601	
5°	597	597	598	598	598	57
15°	566	566	566	566	566	158
25°	476	477	477	478	478	217
35°	313	314	316	317	316	195
45°	156	156	156	156	156	124
55°	90	90	89	90	89	81
65°	55	55	55	55	55	55
75°	29	29	29	29	29	31
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



TEST NUMBER: P579786

CATALOG NUMBER: HC410D010-HM40525930-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	601.2	601.2	601.2	601.2	601.2
2.5°	598.0	598.0	598.0	598.0	598.0
5°	597.4	597.4	598.0	598.0	598.0
7.5°	593.1	593.7	593.7	593.7	593.7
10°	583.8	583.8	584.4	584.4	583.8
12.5°	575.0	575.0	575.0	575.6	575.0
15°	565.7	565.7	565.7	565.7	565.7
17.5°	549.5	550.1	550.1	550.1	550.1
20°	527.7	528.9	528.9	529.6	529.6
22.5°	502.9	503.5	504.1	504.7	504.1
25°	476.0	476.7	476.7	478.0	478.0
27.5°	445.0	445.6	446.8	446.8	446.8
30°	407.6	408.2	408.9	408.9	408.9
32.5°	363.5	363.5	364.7	365.3	364.7
35°	313.1	314.3	315.6	316.8	316.1
37.5°	265.2	266.4	267.0	267.0	267.7
40°	220.9	222.1	222.1	223.4	222.8
42.5°	186.1	185.5	185.5	186.7	186.1
45°	156.2	155.6	155.6	155.6	155.6
47.5°	134.4	133.8	133.8	133.8	133.8
50°	117.0	116.4	116.4	116.4	116.4
52.5°	102.6	102.1	102.1	102.1	101.4
55°	89.6	89.6	89.0	89.6	89.0
57.5°	77.8	77.8	77.8	77.8	77.8
60°	69.6	69.1	69.1	69.1	69.1
62.5°	62.2	62.2	62.2	62.2	62.2
65°	55.4	55.4	55.4	55.4	55.4
67.5°	48.6	47.9	48.6	48.6	47.9
70°	41.7	41.1	41.7	41.7	41.7
72.5°	34.8	34.8	34.8	35.5	34.8
75°	28.7	29.2	29.2	29.2	28.7
77.5°	23.0	23.7	23.0	23.0	23.0
80°	18.1	17.4	17.4	17.4	18.1
82.5°	12.4	12.4	12.4	12.4	12.4
85°	7.5	7.5	7.5	7.5	7.5
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)