

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: P579801

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579801  
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: HC410D010-HM40525935-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

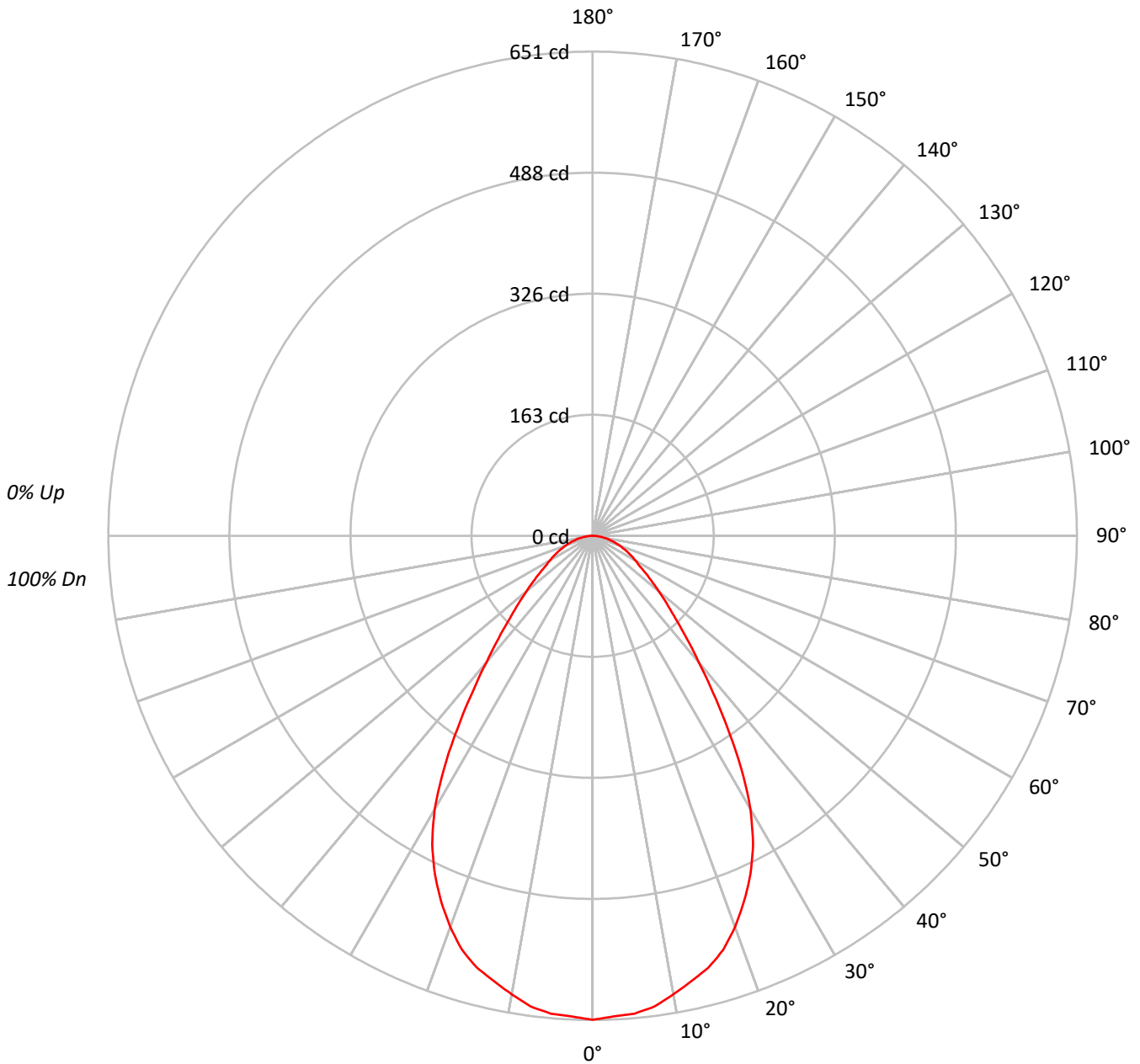
Lumens per Lamp: N/A  
Luminaire Lumens: 946.9 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P579801

CATALOG NUMBER: HC410D010-HM40525935-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P579801

CATALOG NUMBER: HC410D010-HM40525935-41MDW

**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°	80273
5°	79849
10°	78393
15°	76746
20°	73467
25°	68307
30°	60460
35°	47718
40°	35713
45°	27474
50°	22279
55°	18472
60°	16331
65°	15118
70°	13957
75°	12820
80°	11649
85°	9341



TEST NUMBER: P579801

CATALOG NUMBER: HC410D010-HM40525935-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	6.4
10°-20°	168.5	17.8
20°-30°	228.8	24.2
30°-40°	198.2	20.9
40°-50°	124.5	13.1
50°-60°	78.3	8.3
60°-70°	51.4	5.4
70°-80°	28.3	3.0
80°-90°	7.8	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°	458.3	48.4
0°-40°	656.6	69.3
0°-60°	859.3	90.8
0°-90°	946.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	946.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	651	
5°	645	61
15°	601	169
25°	502	229
35°	317	198
45°	158	124
55°	86	78
65°	52	51
75°	27	28
85°	7	8
90°	0	



TEST NUMBER: P579801

CATALOG NUMBER: HC410D010-HM40525935-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	650.8
2.5°	646.8
5°	644.9
7.5°	638.3
10°	625.9
12.5°	613.4
15°	601.0
17.5°	583.9
20°	559.7
22.5°	532.0
25°	501.9
27.5°	467.1
30°	424.5
32.5°	372.7
35°	316.9
37.5°	265.7
40°	221.8
42.5°	187.0
45°	157.5
47.5°	135.2
50°	116.1
52.5°	99.7
55°	85.9
57.5°	74.1
60°	66.2
62.5°	59.1
65°	51.8
67.5°	44.6
70°	38.7
72.5°	32.1
75°	26.9
77.5°	20.9
80°	16.4
82.5°	11.2
85°	6.6
87.5°	2.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)