

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: P579710

Luminaire Tested: **HC410D010-HM40525830-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525830-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1202.1 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

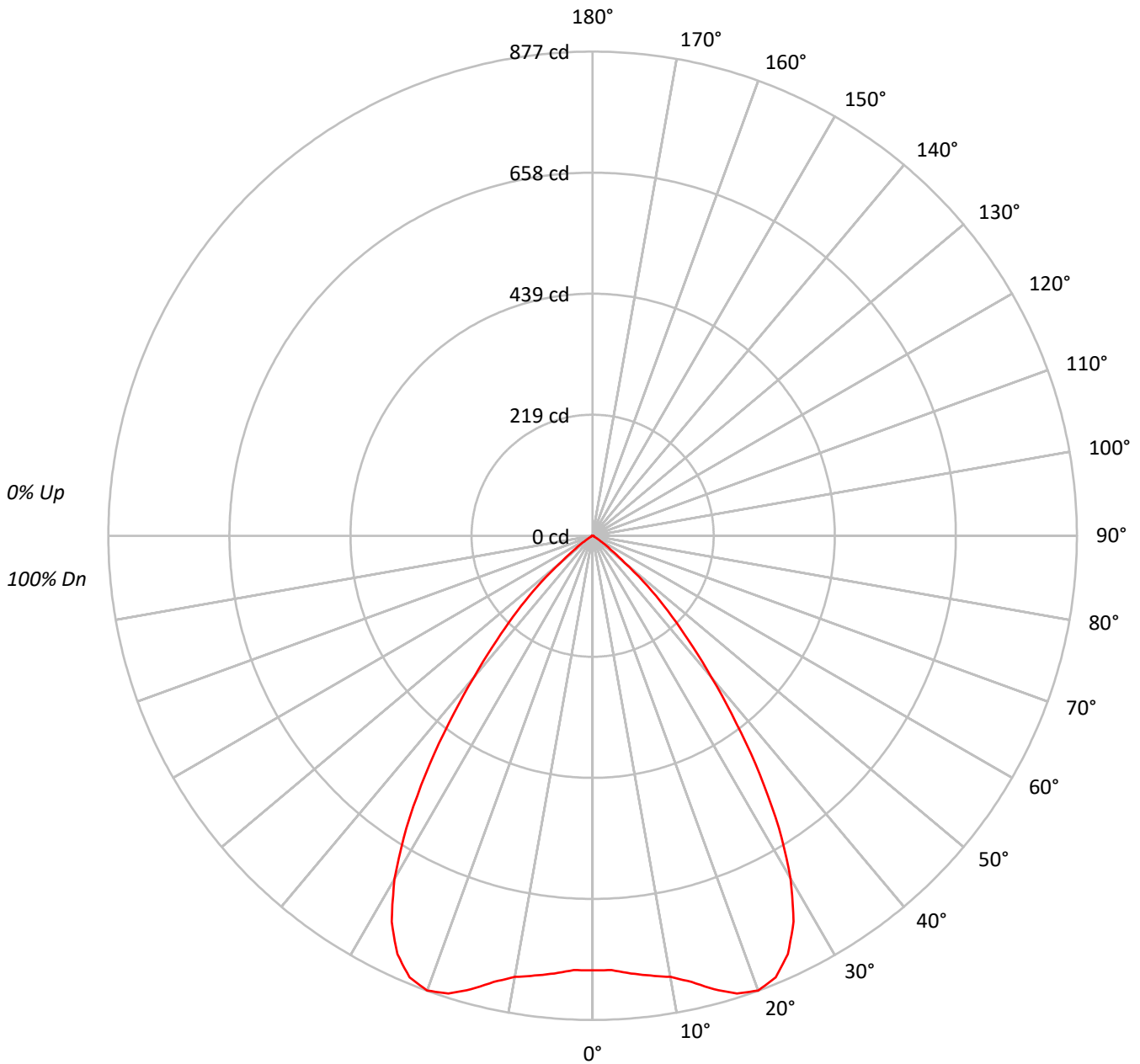
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579710

CATALOG NUMBER: HC410D010-HM40525830-41WDC

Luminous Intensity Polar Plot





TEST NUMBER: P579710

CATALOG NUMBER: HC410D010-HM40525830-41WDC

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60			60
7	79	69	62	57	78	68	62	57	67	61	57	66	60	57	64	60	56	55			55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51			51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97110
5°	98533
10°	101627
15°	108581
20°	115064
25°	113804
30°	102149
35°	79490
40°	53860
45°	33631
50°	14545
55°	4860
60°	1233
65°	817
70°	505
75°	334
80°	497
85°	0



TEST NUMBER: P579710

CATALOG NUMBER: HC410D010-HM40525830-41WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	6.4
10°-20°	241.4	20.1
20°-30°	378.2	31.5
30°-40°	326.4	27.2
40°-50°	150.1	12.5
50°-60°	25.5	2.1
60°-70°	2.9	0.2
70°-80°	1.0	0.1
80°-90°	0.1	0.0
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°	696.0	57.9
0°-40°	1022.5	85.1
0°-60°	1198.1	99.7
0°-90°	1202.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	787	
5°	796	76
15°	850	241
25°	836	378
35°	528	326
45°	193	150
55°	23	25
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P579710

CATALOG NUMBER: HC410D010-HM40525830-41WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	787.3
2.5°	787.3
5°	795.8
7.5°	803.5
10°	811.4
12.5°	827.7
15°	850.3
17.5°	869.4
20°	876.6
22.5°	865.9
25°	836.2
27.5°	788.0
30°	717.2
32.5°	627.8
35°	527.9
37.5°	427.3
40°	334.5
42.5°	255.8
45°	192.8
47.5°	135.3
50°	75.8
52.5°	41.8
55°	22.6
57.5°	11.4
60°	5.0
62.5°	3.5
65°	2.8
67.5°	2.2
70°	1.4
72.5°	1.4
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)