

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: P579777

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525930-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 864.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

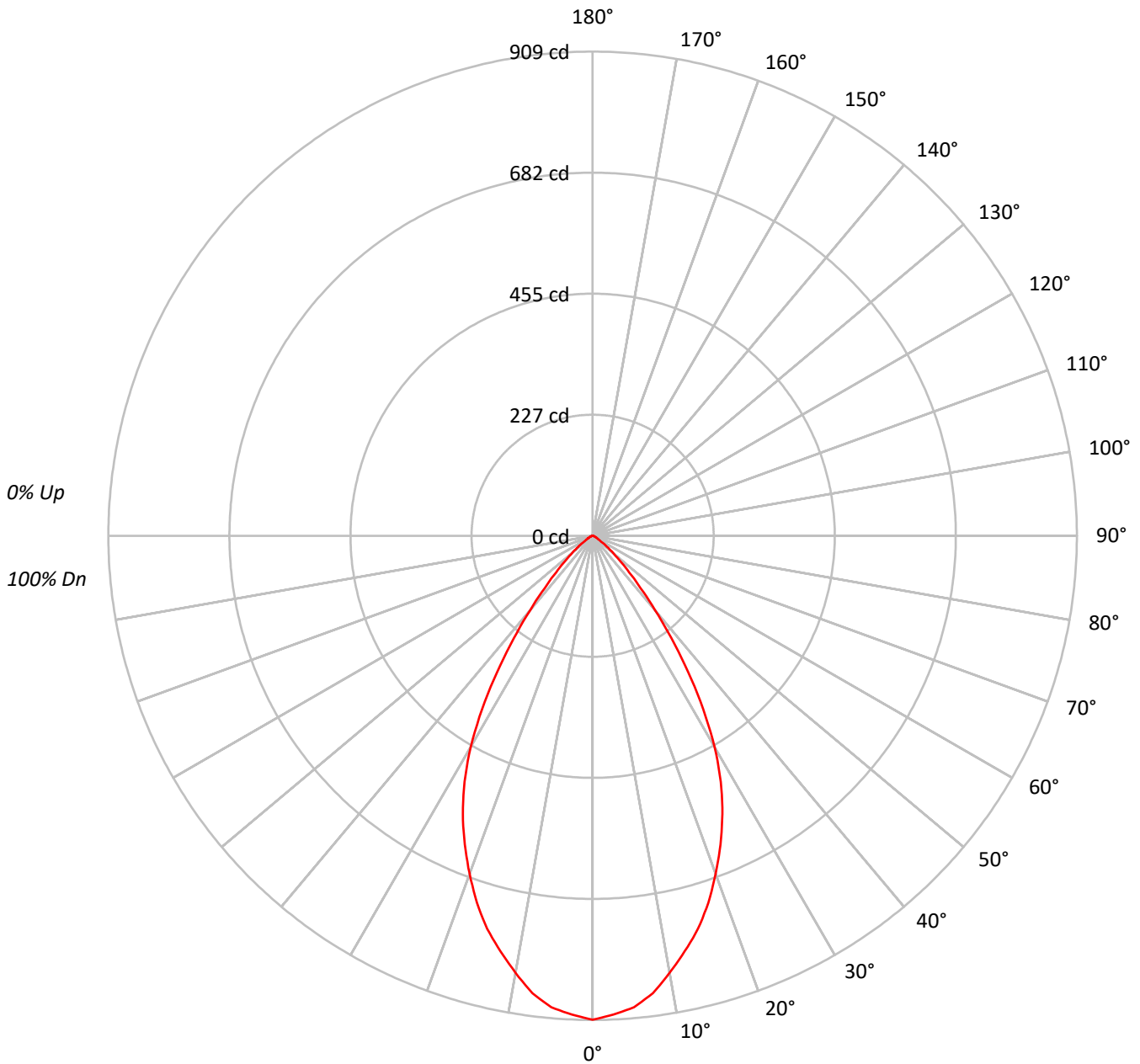
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579777

CATALOG NUMBER: HC410D010-HM40525930-41NDH

Luminous Intensity Polar Plot





TEST NUMBER: P579777

CATALOG NUMBER: HC410D010-HM40525930-41NDH

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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112072
5°	110036
10°	104357
15°	97586
20°	88628
25°	78433
30°	65232
35°	47040
40°	29353
45°	16938
50°	9537
55°	4559
60°	2615
65°	1985
70°	1370
75°	858
80°	923
85°	849



TEST NUMBER: P579777

CATALOG NUMBER: HC410D010-HM40525930-41NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	9.6
10°-20°	213.2	24.7
20°-30°	262.2	30.3
30°-40°	194.7	22.5
40°-50°	79.1	9.2
50°-60°	21.9	2.5
60°-70°	6.9	0.8
70°-80°	2.3	0.3
80°-90°	0.7	0.1
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°	558.4	64.6
0°-40°	753.2	87.2
0°-60°	854.2	98.9
0°-90°	864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	909	
5°	889	83
15°	764	213
25°	576	262
35°	312	195
45°	97	79
55°	21	22
65°	7	7
75°	2	2
85°	1	1
90°	0	



TEST NUMBER: P579777

CATALOG NUMBER: HC410D010-HM40525930-41NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	908.6
2.5°	899.8
5°	888.7
7.5°	866.2
10°	833.2
12.5°	799.0
15°	764.2
17.5°	722.5
20°	675.2
22.5°	627.3
25°	576.3
27.5°	520.9
30°	458.0
32.5°	386.5
35°	312.4
37.5°	242.7
40°	182.3
42.5°	133.1
45°	97.1
47.5°	69.6
50°	49.7
52.5°	34.3
55°	21.2
57.5°	13.7
60°	10.6
62.5°	8.8
65°	6.8
67.5°	5.0
70°	3.8
72.5°	3.1
75°	1.8
77.5°	1.3
80°	1.3
82.5°	0.6
85°	0.6
87.5°	0.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)