

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: P579810

Luminaire Tested: **HC410D010-HM40525940-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525940-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 881.3 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

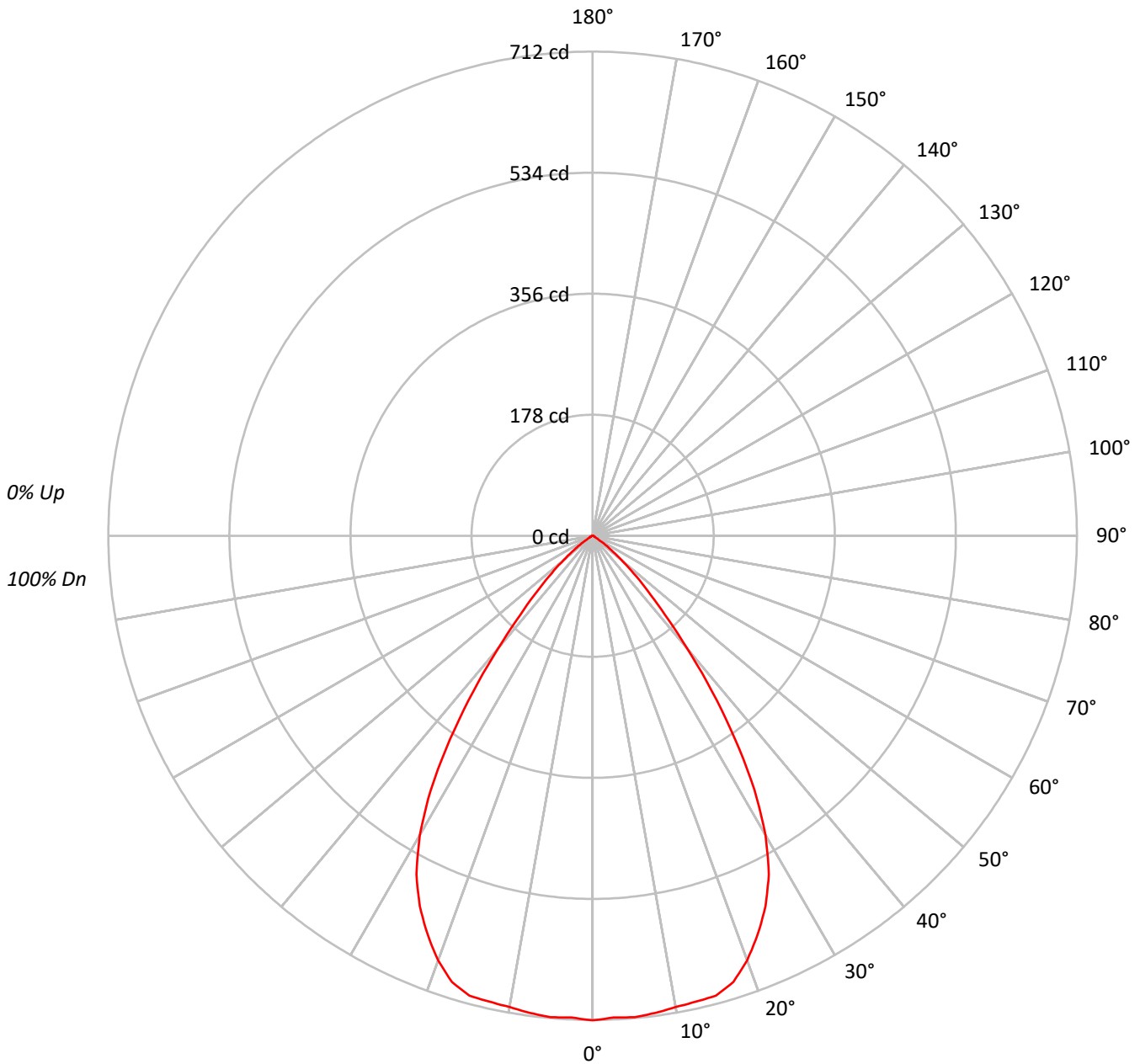
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579810

CATALOG NUMBER: HC410D010-HM40525940-41WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P579810

CATALOG NUMBER: HC410D010-HM40525940-41WDBB

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	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87884
5°	87972
10°	88137
15°	89426
20°	87197
25°	81808
30°	72367
35°	55021
40°	34667
45°	19903
50°	10554
55°	4387
60°	1184
65°	992
70°	721
75°	667
80°	497
85°	991



TEST NUMBER: P579810

CATALOG NUMBER: HC410D010-HM40525940-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	7.7
10°-20°	196.1	22.3
20°-30°	273.7	31.1
30°-40°	225.2	25.6
40°-50°	92.8	10.5
50°-60°	20.9	2.4
60°-70°	3.4	0.4
70°-80°	1.3	0.1
80°-90°	0.5	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°	537.3	61.0
0°-40°	762.5	86.5
0°-60°	876.2	99.4
0°-90°	881.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	881.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	712	
5°	710	68
15°	700	196
25°	601	274
35°	365	225
45°	114	93
55°	20	21
65°	3	3
75°	1	1
85°	1	0
90°	0	



TEST NUMBER: P579810

CATALOG NUMBER: HC410D010-HM40525940-41WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	712.5
2.5°	709.1
5°	710.5
7.5°	707.7
10°	703.7
12.5°	701.7
15°	700.3
17.5°	688.0
20°	664.3
22.5°	634.4
25°	601.1
27.5°	561.0
30°	508.1
32.5°	442.9
35°	365.4
37.5°	287.3
40°	215.3
42.5°	156.9
45°	114.1
47.5°	81.5
50°	55.0
52.5°	34.6
55°	20.4
57.5°	10.2
60°	4.8
62.5°	4.1
65°	3.4
67.5°	2.7
70°	2.0
72.5°	1.4
75°	1.4
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)