

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: P592603

Luminaire Tested: **HC410D010-HM40525850-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525850-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1217.7 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

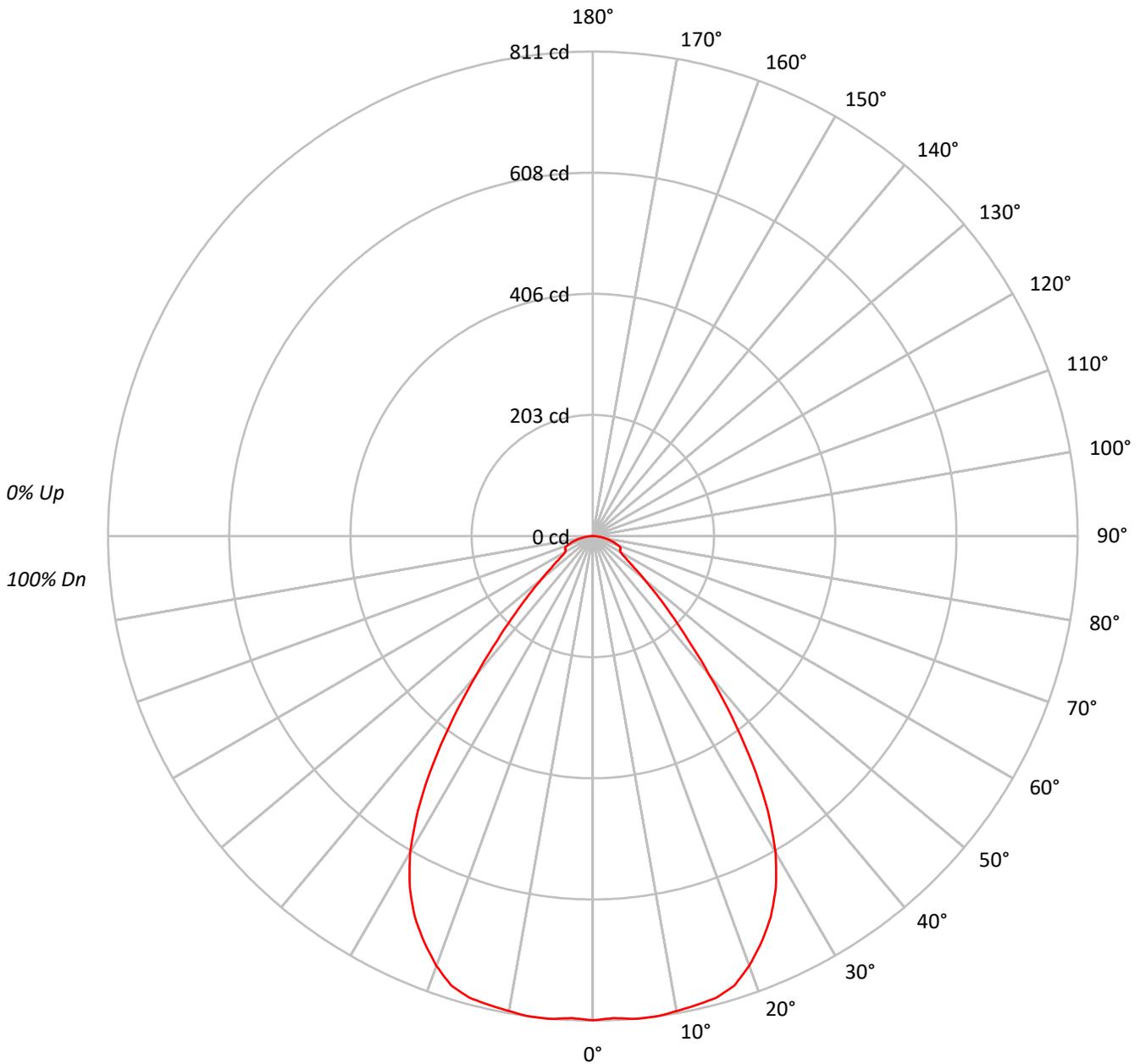
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99972
5°	100453
10°	101138
15°	102157
20°	100455
25°	95826
30°	87066
35°	70229
40°	48724
45°	31974
50°	21415
55°	15247
60°	13025
65°	14972
70°	16048
75°	15441
80°	13922
85°	12879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	6.3
10°-20°	224.7	18.5
20°-30°	321.1	26.4
30°-40°	286.8	23.6
40°-50°	147.1	12.1
50°-60°	66.8	5.5
60°-70°	49.9	4.1
70°-80°	33.9	2.8
80°-90°	10.1	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°	623.1	51.2
0°-40°	909.9	74.7
0°-60°	1123.9	92.3
0°-90°	1217.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	810	
5°	811	77
15°	800	225
25°	704	321
35°	466	287
45°	183	147
55°	71	67
65°	51	50
75°	32	34
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	810.5
2.5°	807.5
5°	811.3
7.5°	811.3
10°	807.5
12.5°	803.8
15°	800.0
17.5°	788.6
20°	765.3
22.5°	736.6
25°	704.1
27.5°	663.3
30°	611.3
32.5°	544.9
35°	466.4
37.5°	382.6
40°	302.6
42.5°	236.2
45°	183.3
47.5°	143.4
50°	111.6
52.5°	87.5
55°	70.9
57.5°	59.6
60°	52.8
62.5°	51.3
65°	51.3
67.5°	49.8
70°	44.5
72.5°	38.5
75°	32.4
77.5°	25.6
80°	19.6
82.5°	14.3
85°	9.1
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)