

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: P592606

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525850-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1205.1 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

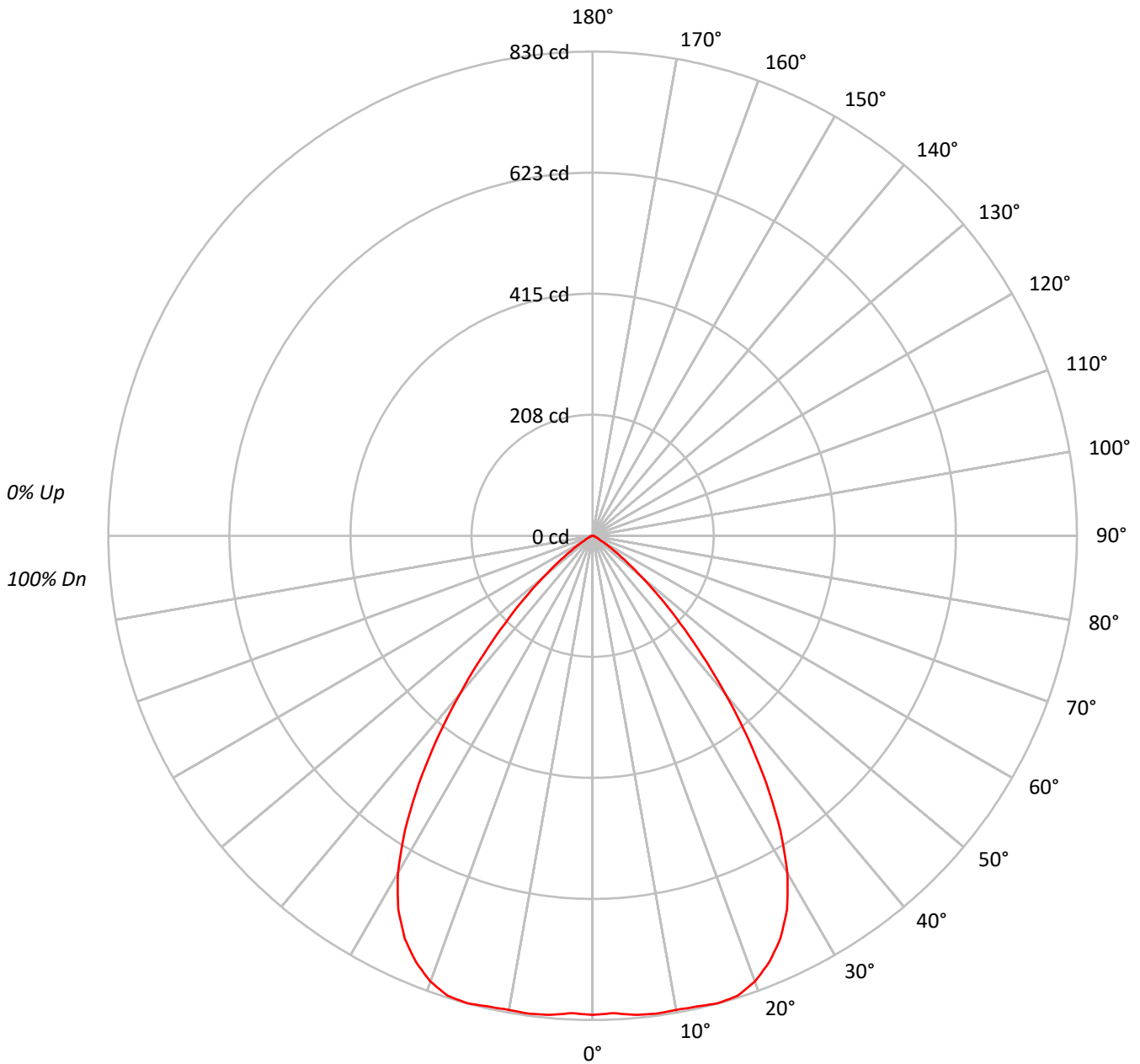
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101304
5°	102075
10°	103355
15°	105937
20°	106729
25°	103665
30°	95042
35°	78210
40°	57000
45°	36998
50°	20859
55°	9914
60°	3898
65°	2422
70°	1659
75°	1096
80°	568
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	6.5
10°-20°	233.9	19.4
20°-30°	346.9	28.8
30°-40°	320.4	26.6
40°-50°	167.3	13.9
50°-60°	45.9	3.8
60°-70°	8.8	0.7
70°-80°	2.5	0.2
80°-90°	0.5	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°	659.5	54.7
0°-40°	980.0	81.3
0°-60°	1193.1	99.0
0°-90°	1205.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	821	
5°	824	79
15°	830	234
25°	762	347
35°	519	320
45°	212	167
55°	46	46
65°	8	9
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	821.3
2.5°	819.1
5°	824.4
7.5°	826.6
10°	825.2
12.5°	826.6
15°	829.6
17.5°	826.6
20°	813.1
22.5°	791.1
25°	761.7
27.5°	721.7
30°	667.3
32.5°	598.7
35°	519.4
37.5°	436.3
40°	354.0
42.5°	278.6
45°	212.1
47.5°	155.6
50°	108.7
52.5°	72.5
55°	46.1
57.5°	27.2
60°	15.8
62.5°	11.4
65°	8.3
67.5°	6.0
70°	4.6
72.5°	3.1
75°	2.3
77.5°	1.5
80°	0.8
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)