

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: P579695

Luminaire Tested: **HC410D010-HM40525827-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525827-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.8 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

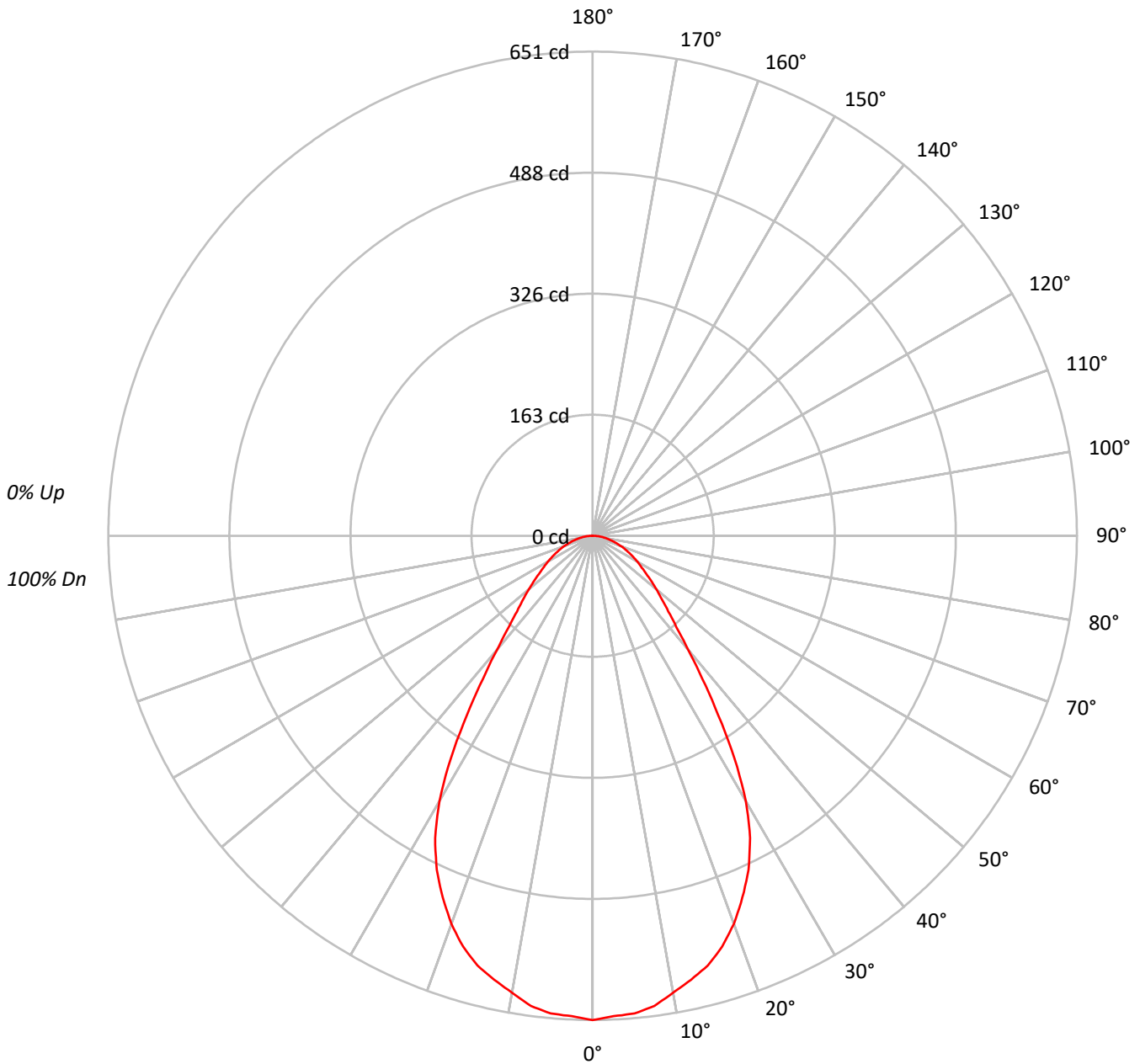
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80323
5°	79825
10°	78117
15°	76388
20°	72863
25°	67450
30°	58680
35°	44300
40°	32107
45°	25084
50°	21453
55°	18559
60°	17096
65°	15644
70°	14606
75°	13392
80°	12502
85°	12029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	6.6
10°-20°	167.6	18.1
20°-30°	225.4	24.4
30°-40°	185.3	20.0
40°-50°	113.8	12.3
50°-60°	78.8	8.5
60°-70°	53.7	5.8
70°-80°	29.9	3.2
80°-90°	9.5	1.0
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°	453.8	49.1
0°-40°	639.1	69.1
0°-60°	831.7	89.9
0°-90°	924.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	651	
5°	645	61
15°	598	168
25°	496	225
35°	294	185
45°	144	114
55°	86	79
65°	54	54
75°	28	30
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	651.2
2.5°	646.6
5°	644.7
7.5°	637.5
10°	623.7
12.5°	611.3
15°	598.2
17.5°	579.2
20°	555.1
22.5°	526.3
25°	495.6
27.5°	458.4
30°	412.0
32.5°	355.1
35°	294.2
37.5°	241.9
40°	199.4
42.5°	166.7
45°	143.8
47.5°	126.2
50°	111.8
52.5°	98.8
55°	86.3
57.5°	77.2
60°	69.3
62.5°	61.5
65°	53.6
67.5°	47.1
70°	40.5
72.5°	34.0
75°	28.1
77.5°	22.2
80°	17.6
82.5°	13.1
85°	8.5
87.5°	4.6
90°	0.0



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— 0°-180°







(END OF REPORT)