

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: P579685

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579685
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-HM40525827-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1055.5 lumens
Efficiency: N/A
Efficacy: 106.6 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

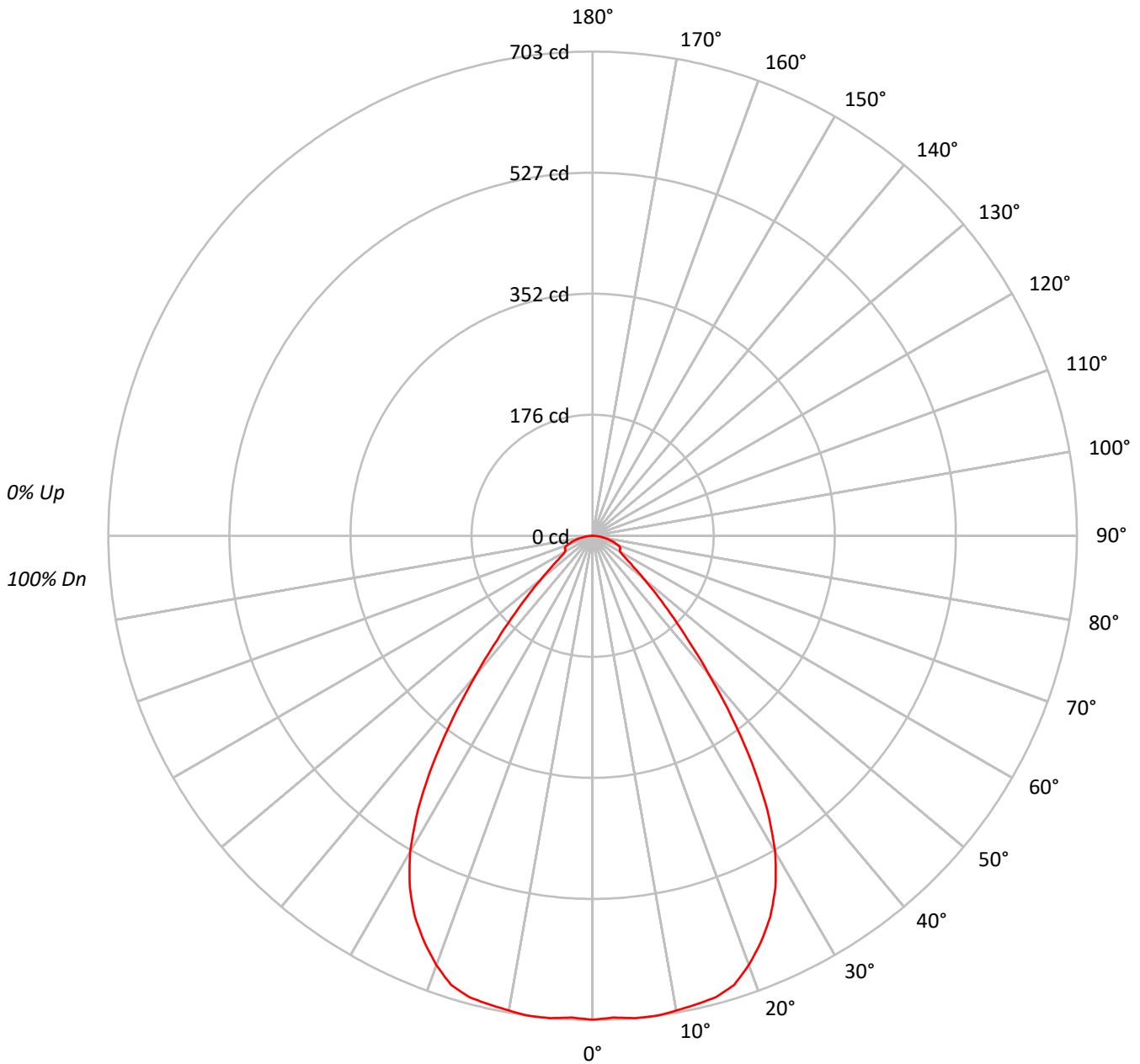
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86663
5°	87068
10°	87674
15°	88545
20°	87066
25°	83060
30°	75472
35°	60863
40°	42235
45°	27735
50°	18575
55°	13225
60°	11274
65°	12988
70°	13921
75°	13392
80°	12075
85°	11180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	6.3
10°-20°	194.8	18.5
20°-30°	278.3	26.4
30°-40°	248.6	23.6
40°-50°	127.5	12.1
50°-60°	58.0	5.5
60°-70°	43.2	4.1
70°-80°	29.4	2.8
80°-90°	8.7	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°	540.1	51.2
0°-40°	788.7	74.7
0°-60°	974.2	92.3
0°-90°	1055.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	703	
5°	703	67
15°	693	195
25°	610	278
35°	404	249
45°	159	128
55°	62	58
65°	44	43
75°	28	29
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	702.6
2.5°	700.0
5°	703.2
7.5°	703.2
10°	700.0
12.5°	696.7
15°	693.4
17.5°	683.6
20°	663.3
22.5°	638.4
25°	610.3
27.5°	575.0
30°	529.9
32.5°	472.3
35°	404.2
37.5°	331.6
40°	262.3
42.5°	204.7
45°	159.0
47.5°	124.3
50°	96.8
52.5°	75.9
55°	61.5
57.5°	51.7
60°	45.7
62.5°	44.5
65°	44.5
67.5°	43.1
70°	38.6
72.5°	33.3
75°	28.1
77.5°	22.2
80°	17.0
82.5°	12.4
85°	7.9
87.5°	3.3
90°	0.0



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— 0°-180°







(END OF REPORT)