

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: P579721

Luminaire Tested: **HC410D010-HM40525835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579721
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-HM40525835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1185.1 lumens
Efficiency: N/A
Efficacy: 119.7 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

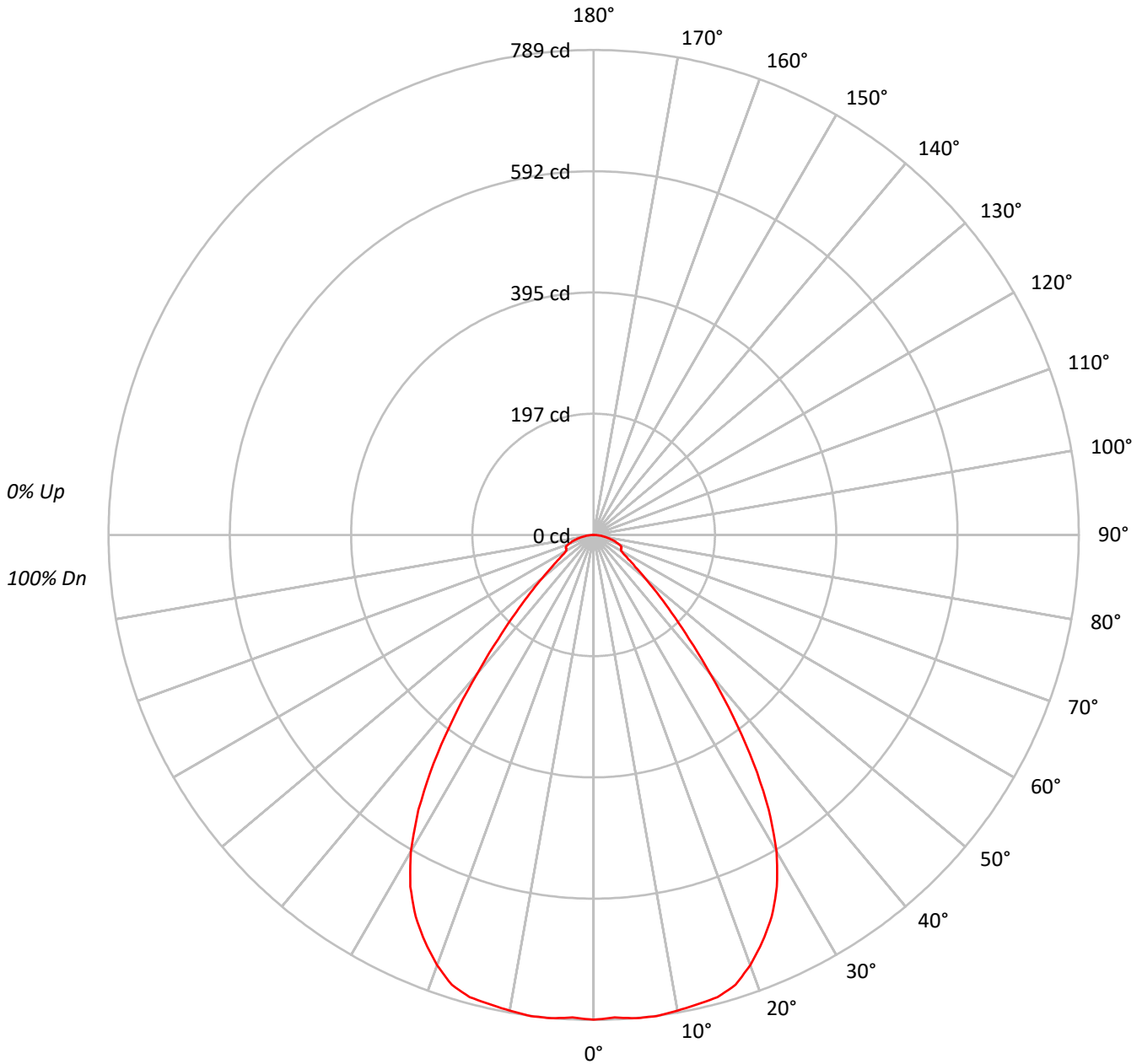
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	97283
5°	97741
10°	98420
15°	99412
20°	97751
25°	93254
30°	84716
35°	68332
40°	47419
45°	31120
50°	20859
55°	14860
60°	12680
65°	14593
70°	15652
75°	15012
80°	13567
85°	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	6.3
10°-20°	218.7	18.5
20°-30°	312.5	26.4
30°-40°	279.1	23.6
40°-50°	143.1	12.1
50°-60°	65.1	5.5
60°-70°	48.6	4.1
70°-80°	33.0	2.8
80°-90°	9.8	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°	606.4	51.2
0°-40°	885.5	74.7
0°-60°	1093.7	92.3
0°-90°	1185.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	789	
5°	789	75
15°	778	219
25°	685	312
35°	454	279
45°	178	143
55°	69	65
65°	50	49
75°	32	33
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	788.7
2.5°	785.8
5°	789.4
7.5°	789.4
10°	785.8
12.5°	782.1
15°	778.5
17.5°	767.5
20°	744.7
22.5°	716.8
25°	685.2
27.5°	645.6
30°	594.8
32.5°	530.2
35°	453.8
37.5°	372.4
40°	294.5
42.5°	229.9
45°	178.4
47.5°	139.5
50°	108.7
52.5°	85.2
55°	69.1
57.5°	58.0
60°	51.4
62.5°	50.0
65°	50.0
67.5°	48.5
70°	43.4
72.5°	37.4
75°	31.5
77.5°	24.9
80°	19.1
82.5°	14.0
85°	8.8
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)