

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: P579731

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579731
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-HM40525835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1038.1 lumens
Efficiency: N/A
Efficacy: 104.9 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

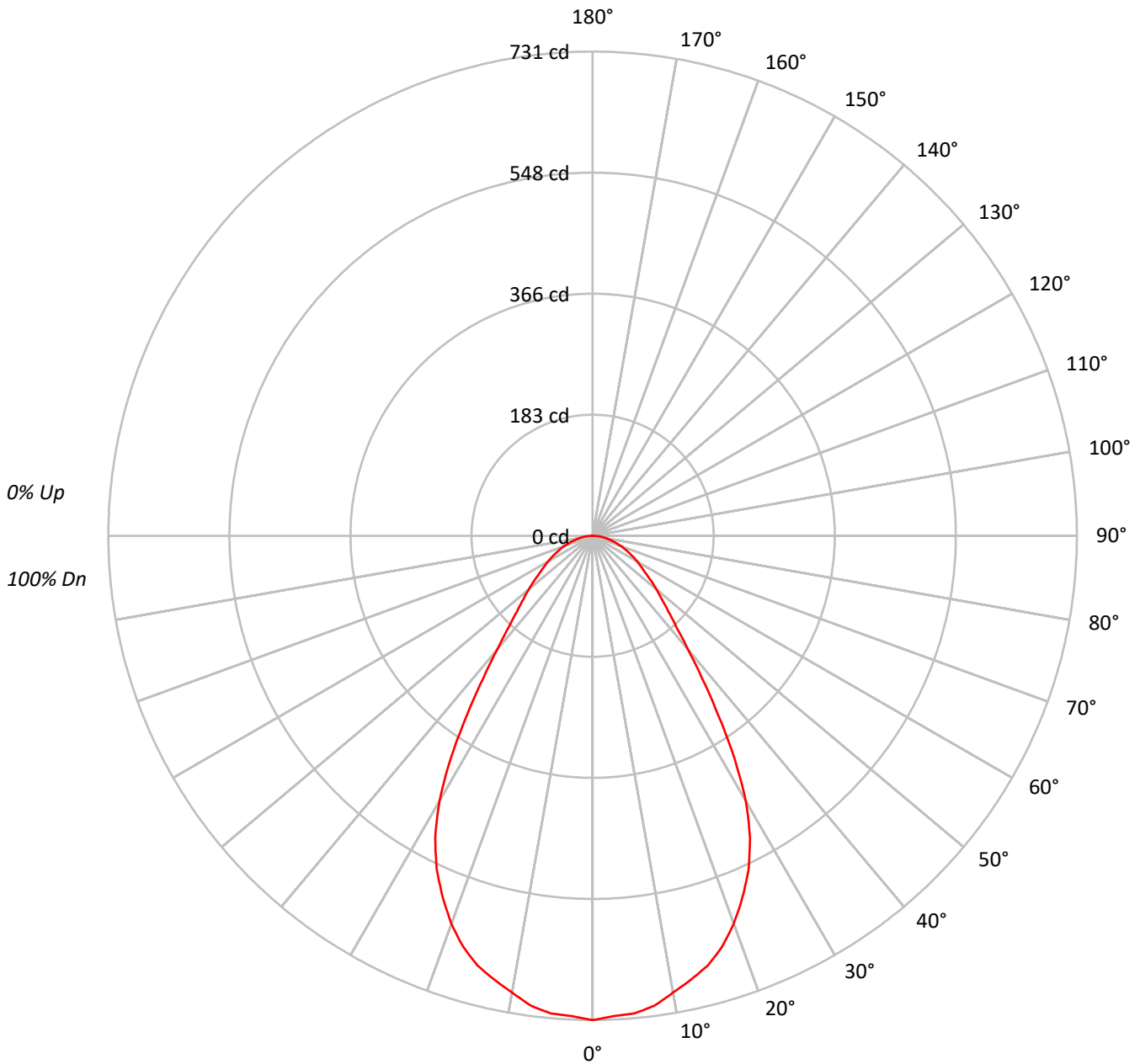
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	92	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°	90190
5°	89619
10°	87711
15°	85761
20°	81802
25°	75724
30°	65873
35°	49751
40°	36035
45°	28172
50°	24082
55°	20817
60°	19193
65°	17570
70°	16409
75°	15012
80°	14064
85°	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	6.6
10°-20°	188.1	18.1
20°-30°	253.0	24.4
30°-40°	208.0	20.0
40°-50°	127.8	12.3
50°-60°	88.4	8.5
60°-70°	60.3	5.8
70°-80°	33.5	3.2
80°-90°	10.7	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°	509.5	49.1
0°-40°	717.5	69.1
0°-60°	933.7	89.9
0°-90°	1038.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	731	
5°	724	68
15°	672	188
25°	556	253
35°	330	208
45°	162	128
55°	97	88
65°	60	60
75°	32	34
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	731.2
2.5°	725.9
5°	723.8
7.5°	715.7
10°	700.3
12.5°	686.3
15°	671.6
17.5°	650.4
20°	623.2
22.5°	591.0
25°	556.4
27.5°	514.6
30°	462.5
32.5°	398.6
35°	330.4
37.5°	271.6
40°	223.8
42.5°	187.2
45°	161.5
47.5°	141.7
50°	125.5
52.5°	110.8
55°	96.8
57.5°	86.6
60°	77.8
62.5°	69.0
65°	60.2
67.5°	52.8
70°	45.5
72.5°	38.1
75°	31.5
77.5°	24.9
80°	19.8
82.5°	14.7
85°	9.6
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)