

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: P579999

Luminaire Tested: **HC420D010-HM40525830-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC420D010-HM40525830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

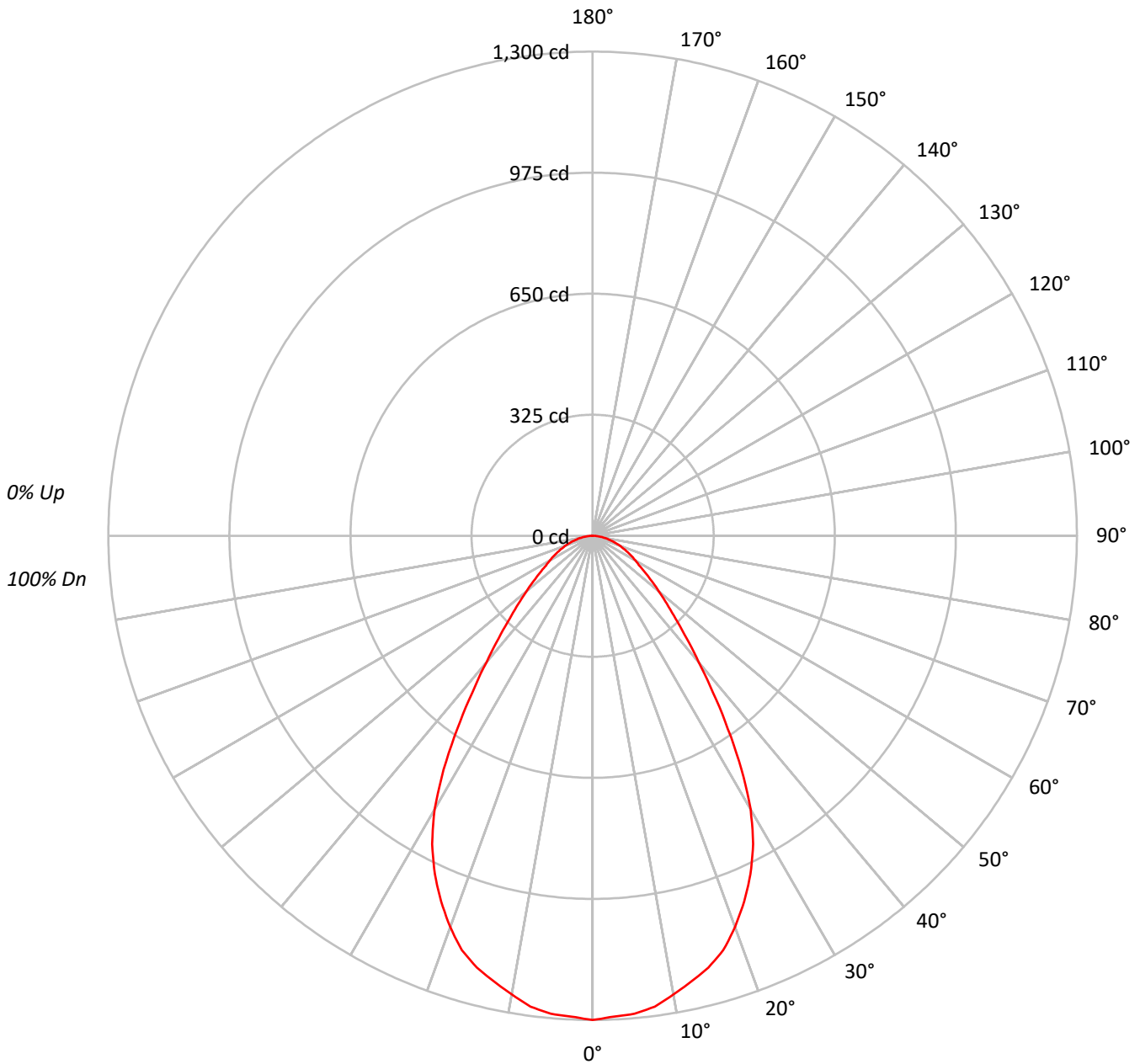
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	160362
5°	159513
10°	156598
15°	153300
20°	146751
25°	136451
30°	120778
35°	95315
40°	71330
45°	54860
50°	44500
55°	36923
60°	32662
65°	30237
70°	27877
75°	25592
80°	23298
85°	18540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	6.4
10°-20°	336.7	17.8
20°-30°	457.1	24.2
30°-40°	396.0	20.9
40°-50°	248.6	13.1
50°-60°	156.4	8.3
60°-70°	102.7	5.4
70°-80°	56.7	3.0
80°-90°	15.5	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°	915.6	48.4
0°-40°	1311.6	69.3
0°-60°	1716.6	90.8
0°-90°	1891.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1300	
5°	1288	122
15°	1200	337
25°	1003	457
35°	633	396
45°	314	249
55°	172	156
65°	104	103
75°	54	57
85°	13	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1300.1
2.5°	1292.2
5°	1288.3
7.5°	1275.2
10°	1250.3
12.5°	1225.5
15°	1200.5
17.5°	1166.4
20°	1118.0
22.5°	1062.9
25°	1002.6
27.5°	933.1
30°	848.0
32.5°	744.4
35°	633.0
37.5°	530.8
40°	443.0
42.5°	373.5
45°	314.5
47.5°	270.0
50°	231.9
52.5°	199.2
55°	171.7
57.5°	148.1
60°	132.4
62.5°	117.9
65°	103.6
67.5°	89.1
70°	77.3
72.5°	64.2
75°	53.7
77.5°	42.0
80°	32.8
82.5°	22.3
85°	13.1
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)