

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: P579991

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579991
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: HC420D010-HM40525830-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2114.3 lumens
Efficiency: N/A
Efficacy: 105.7 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

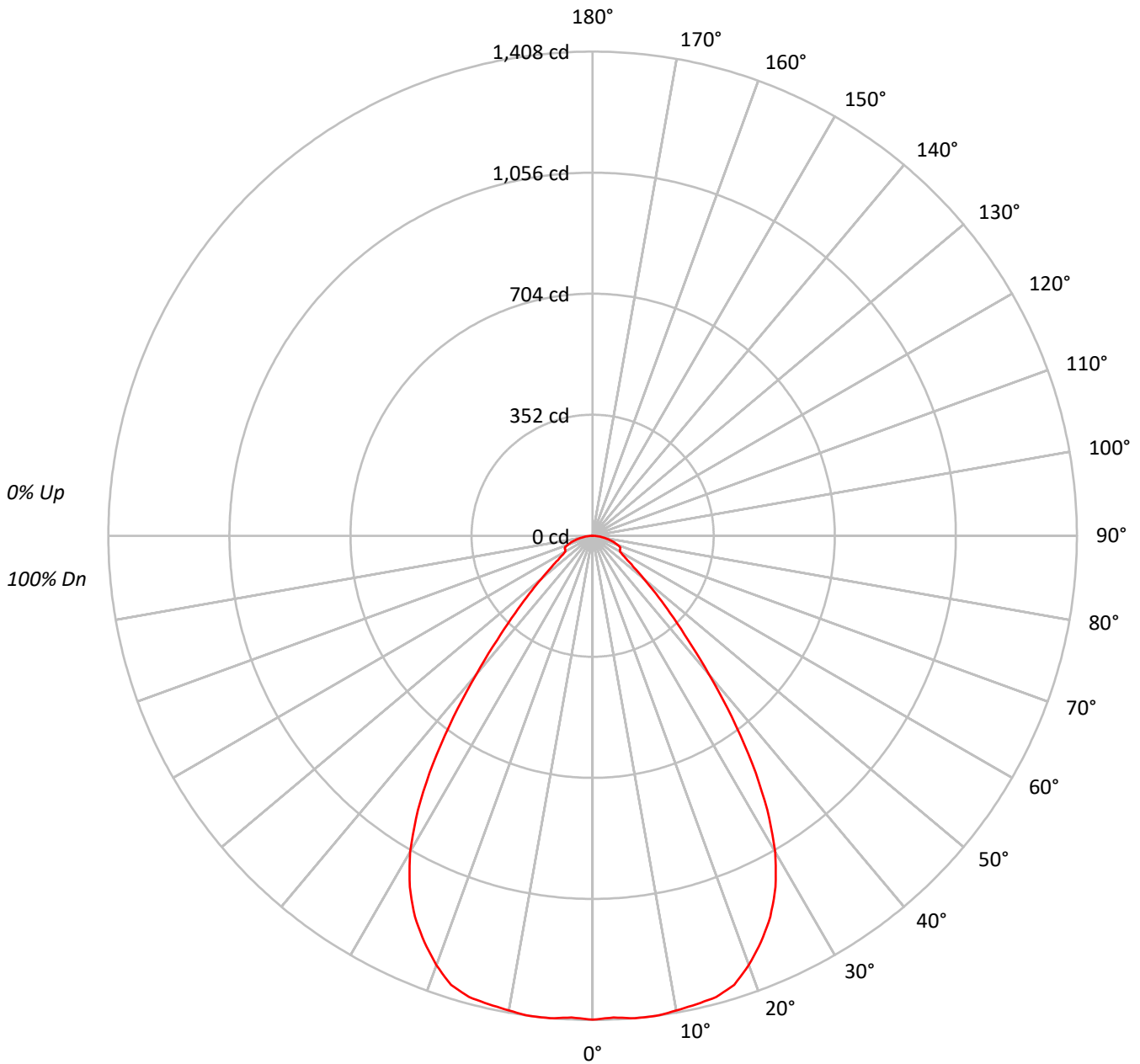
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	173560
5°	174396
10°	175586
15°	177345
20°	174394
25°	166378
30°	151158
35°	121922
40°	84598
45°	55541
50°	37227
55°	26494
60°	22646
65°	26005
70°	27877
75°	26831
80°	24222
85°	22219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	6.3
10°-20°	390.1	18.5
20°-30°	557.4	26.4
30°-40°	497.9	23.6
40°-50°	255.4	12.1
50°-60°	116.1	5.5
60°-70°	86.6	4.1
70°-80°	58.9	2.8
80°-90°	17.5	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°	1081.8	51.2
0°-40°	1579.7	74.7
0°-60°	1951.3	92.3
0°-90°	2114.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2114.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1407	
5°	1408	134
15°	1389	390
25°	1222	557
35°	810	498
45°	318	255
55°	123	116
65°	89	87
75°	56	59
85°	16	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1407.1
2.5°	1401.9
5°	1408.5
7.5°	1408.5
10°	1401.9
12.5°	1395.3
15°	1388.8
17.5°	1369.2
20°	1328.6
22.5°	1278.8
25°	1222.5
27.5°	1151.7
30°	1061.3
32.5°	945.9
35°	809.7
37.5°	664.2
40°	525.4
42.5°	410.1
45°	318.4
47.5°	248.9
50°	194.0
52.5°	152.0
55°	123.2
57.5°	103.5
60°	91.8
62.5°	89.1
65°	89.1
67.5°	86.5
70°	77.3
72.5°	66.9
75°	56.3
77.5°	44.5
80°	34.1
82.5°	24.9
85°	15.7
87.5°	6.5
90°	0.0



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— 0°-180°







(END OF REPORT)