

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: P579883

Luminaire Tested: **HC415D010-HM40525840-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579883
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: HC415D010-HM40525840-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1655.8 lumens
Efficiency: N/A
Efficacy: 118.3 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

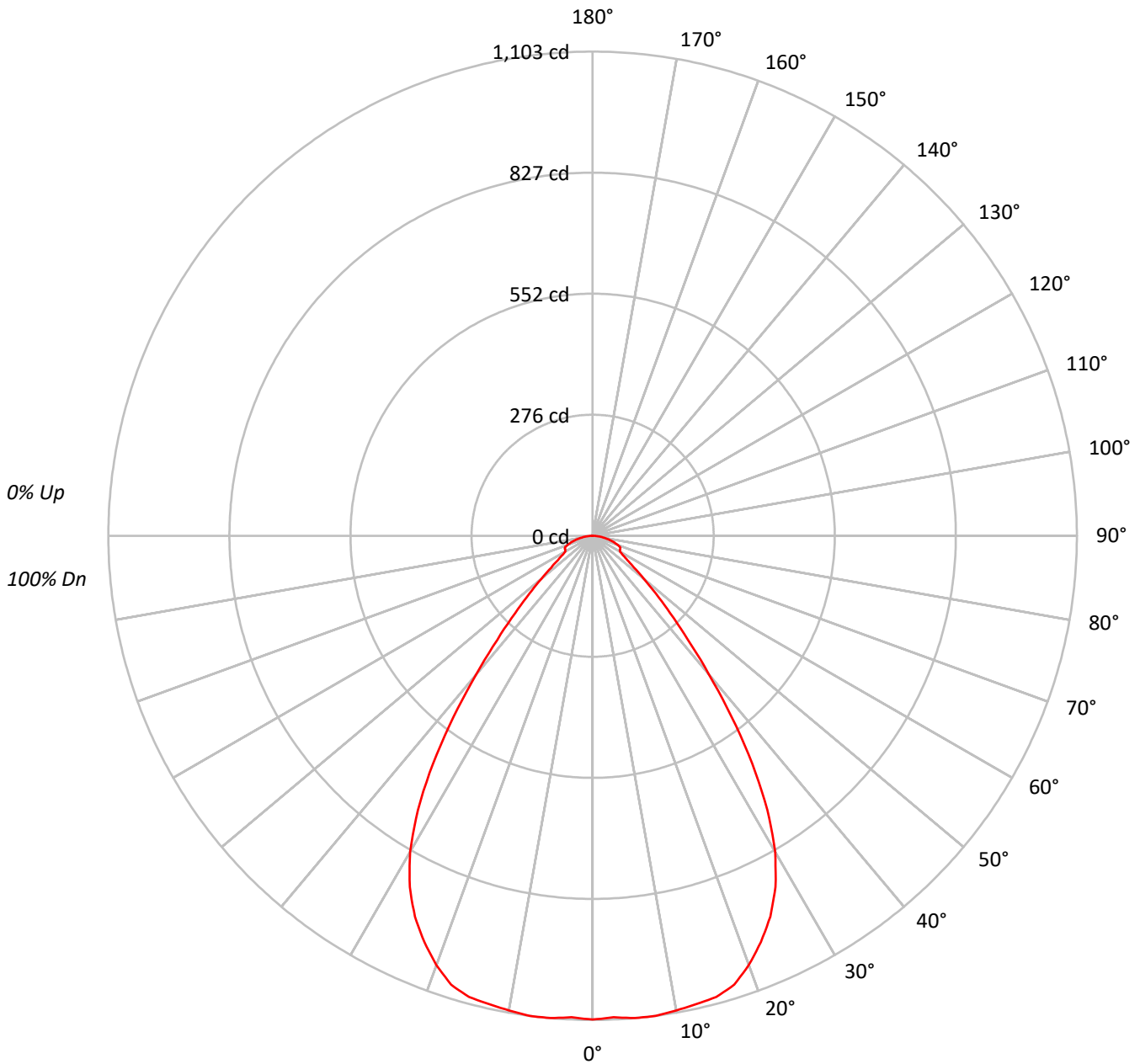
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135927
5°	136570
10°	137510
15°	138896
20°	136578
25°	130299
30°	118371
35°	95481
40°	66258
45°	43487
50°	29148
55°	20730
60°	17737
65°	20372
70°	21819
75°	21017
80°	18966
85°	17407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	6.3
10°-20°	305.6	18.5
20°-30°	436.6	26.4
30°-40°	390.0	23.6
40°-50°	200.0	12.1
50°-60°	90.9	5.5
60°-70°	67.8	4.1
70°-80°	46.1	2.8
80°-90°	13.6	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°	847.2	51.2
0°-40°	1237.2	74.7
0°-60°	1528.2	92.3
0°-90°	1655.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1102	
5°	1103	105
15°	1088	306
25°	957	437
35°	634	390
45°	249	200
55°	96	91
65°	70	68
75°	44	46
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1102.0
2.5°	1097.9
5°	1103.0
7.5°	1103.0
10°	1097.9
12.5°	1092.8
15°	1087.7
17.5°	1072.3
20°	1040.5
22.5°	1001.5
25°	957.4
27.5°	902.0
30°	831.1
32.5°	740.9
35°	634.1
37.5°	520.2
40°	411.5
42.5°	321.2
45°	249.3
47.5°	195.0
50°	151.9
52.5°	119.0
55°	96.4
57.5°	81.1
60°	71.9
62.5°	69.8
65°	69.8
67.5°	67.8
70°	60.5
72.5°	52.3
75°	44.1
77.5°	34.9
80°	26.7
82.5°	19.4
85°	12.3
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)