

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: P580652

Luminaire Tested: **HC440D010-HM43040935-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580652
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: HC440D010-HM43040935-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3922.6 lumens
Efficiency: N/A
Efficacy: 95.7 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

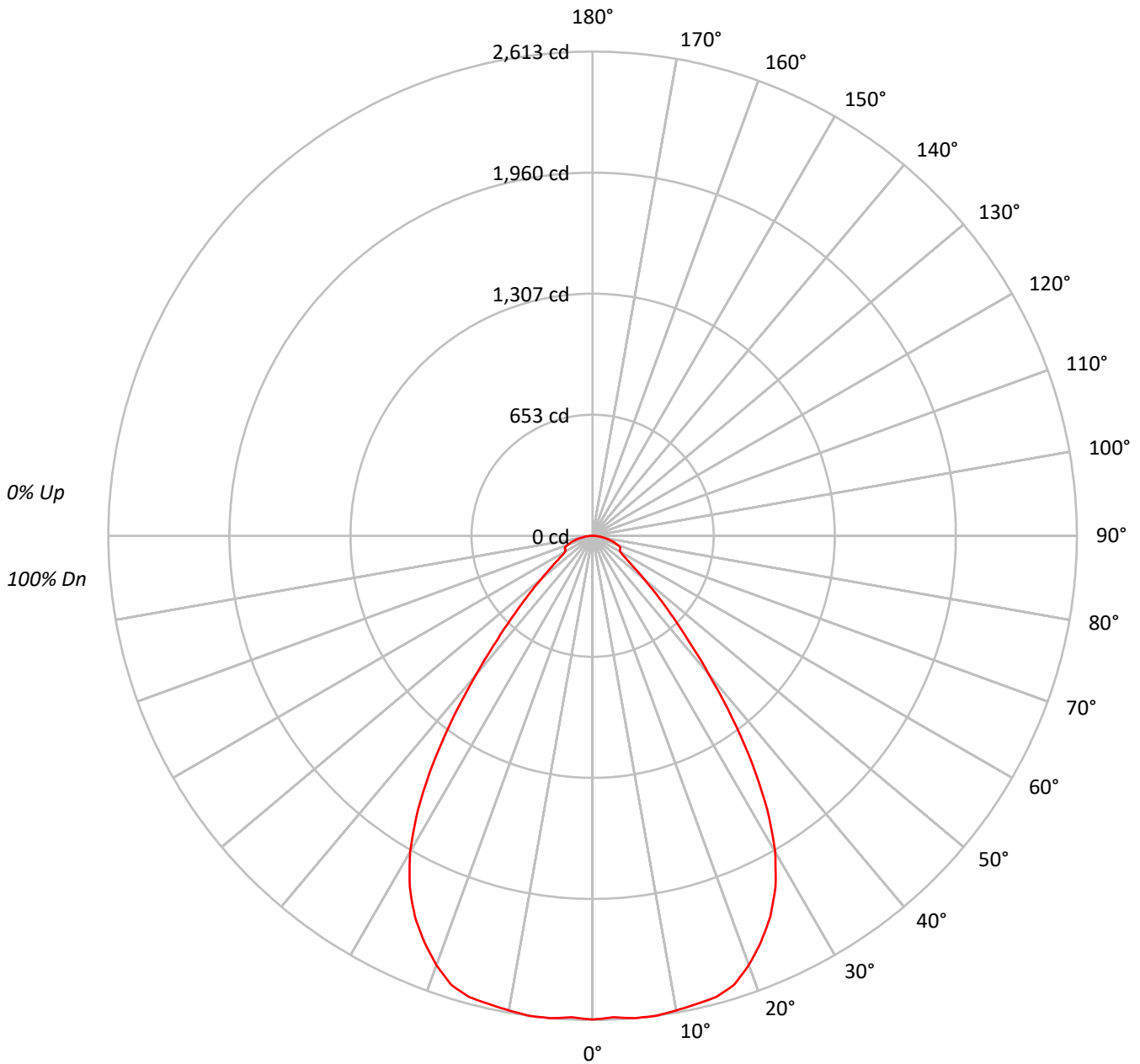
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	322031
5°	323570
10°	325796
15°	329049
20°	323560
25°	308681
30°	280439
35°	226227
40°	156959
45°	103057
50°	69023
55°	49138
60°	41987
65°	48245
70°	51716
75°	49802
80°	44892
85°	41183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	6.3
10°-20°	723.9	18.5
20°-30°	1034.2	26.4
30°-40°	923.9	23.6
40°-50°	473.9	12.1
50°-60°	215.4	5.5
60°-70°	160.6	4.1
70°-80°	109.3	2.8
80°-90°	32.4	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°	2007.2	51.2
0°-40°	2931.1	74.7
0°-60°	3620.3	92.3
0°-90°	3922.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2611	
5°	2613	249
15°	2577	724
25°	2268	1034
35°	1502	924
45°	591	474
55°	228	215
65°	165	161
75°	104	109
85°	29	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2610.8
2.5°	2601.2
5°	2613.3
7.5°	2613.3
10°	2601.2
12.5°	2588.9
15°	2576.8
17.5°	2540.3
20°	2465.0
22.5°	2372.6
25°	2268.1
27.5°	2136.9
30°	1969.0
32.5°	1755.1
35°	1502.4
37.5°	1232.5
40°	974.8
42.5°	760.9
45°	590.8
47.5°	461.9
50°	359.7
52.5°	282.0
55°	228.5
57.5°	192.0
60°	170.2
62.5°	165.3
65°	165.3
67.5°	160.4
70°	143.4
72.5°	124.0
75°	104.5
77.5°	82.6
80°	63.2
82.5°	46.2
85°	29.1
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)