

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: P580454

Luminaire Tested: **HC435D010-HM43040840-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580454
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: HC435D010-HM43040840-41WDWB
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: 3980.1 lumens
Efficiency: N/A
Efficacy: 118.1 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

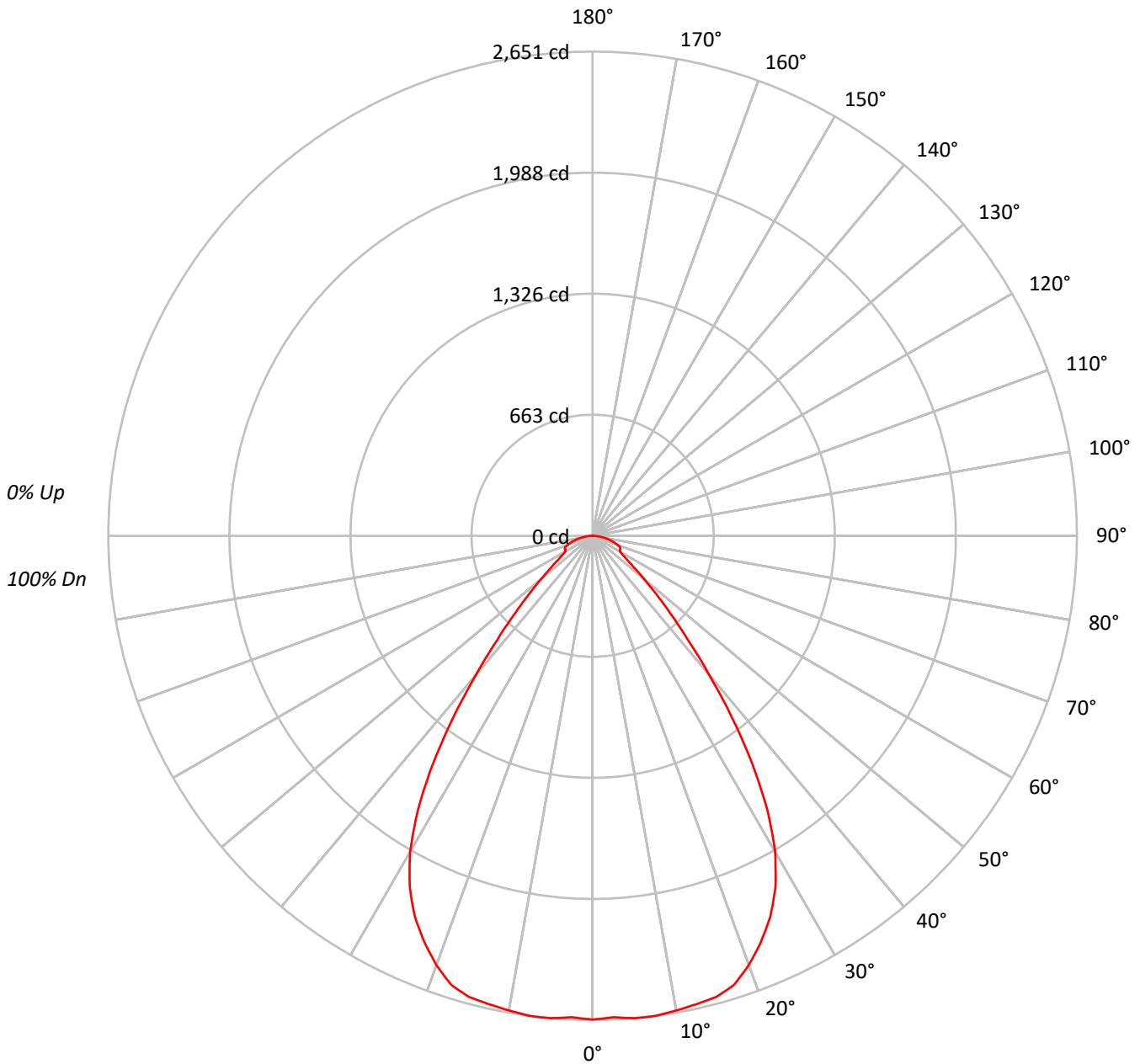
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	326730
5°	328288
10°	330556
15°	333850
20°	328285
25°	313186
30°	284541
35°	229525
40°	159245
45°	104540
50°	70060
55°	49869
60°	42579
65°	48945
70°	52509
75°	50564
80°	45602
85°	41891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	6.3
10°-20°	734.4	18.5
20°-30°	1049.3	26.4
30°-40°	937.4	23.6
40°-50°	480.8	12.1
50°-60°	218.6	5.5
60°-70°	163.0	4.1
70°-80°	110.9	2.8
80°-90°	32.9	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°	2036.5	51.2
0°-40°	2973.9	74.7
0°-60°	3673.2	92.3
0°-90°	3980.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3980.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2649	
5°	2651	253
15°	2614	734
25°	2301	1049
35°	1524	937
45°	599	481
55°	232	219
65°	168	163
75°	106	111
85°	30	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2648.9
2.5°	2639.2
5°	2651.4
7.5°	2651.4
10°	2639.2
12.5°	2626.8
15°	2614.4
17.5°	2577.4
20°	2501.0
22.5°	2407.3
25°	2301.2
27.5°	2168.0
30°	1997.8
32.5°	1780.8
35°	1524.3
37.5°	1250.4
40°	989.0
42.5°	772.0
45°	599.3
47.5°	468.6
50°	365.1
52.5°	286.1
55°	231.9
57.5°	194.9
60°	172.6
62.5°	167.7
65°	167.7
67.5°	162.8
70°	145.6
72.5°	125.8
75°	106.1
77.5°	83.9
80°	64.2
82.5°	46.9
85°	29.6
87.5°	12.4
90°	0.0



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— 0°-180°







(END OF REPORT)