

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: P580446

Luminaire Tested: **HC435D010-HM43040835-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3332.6 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

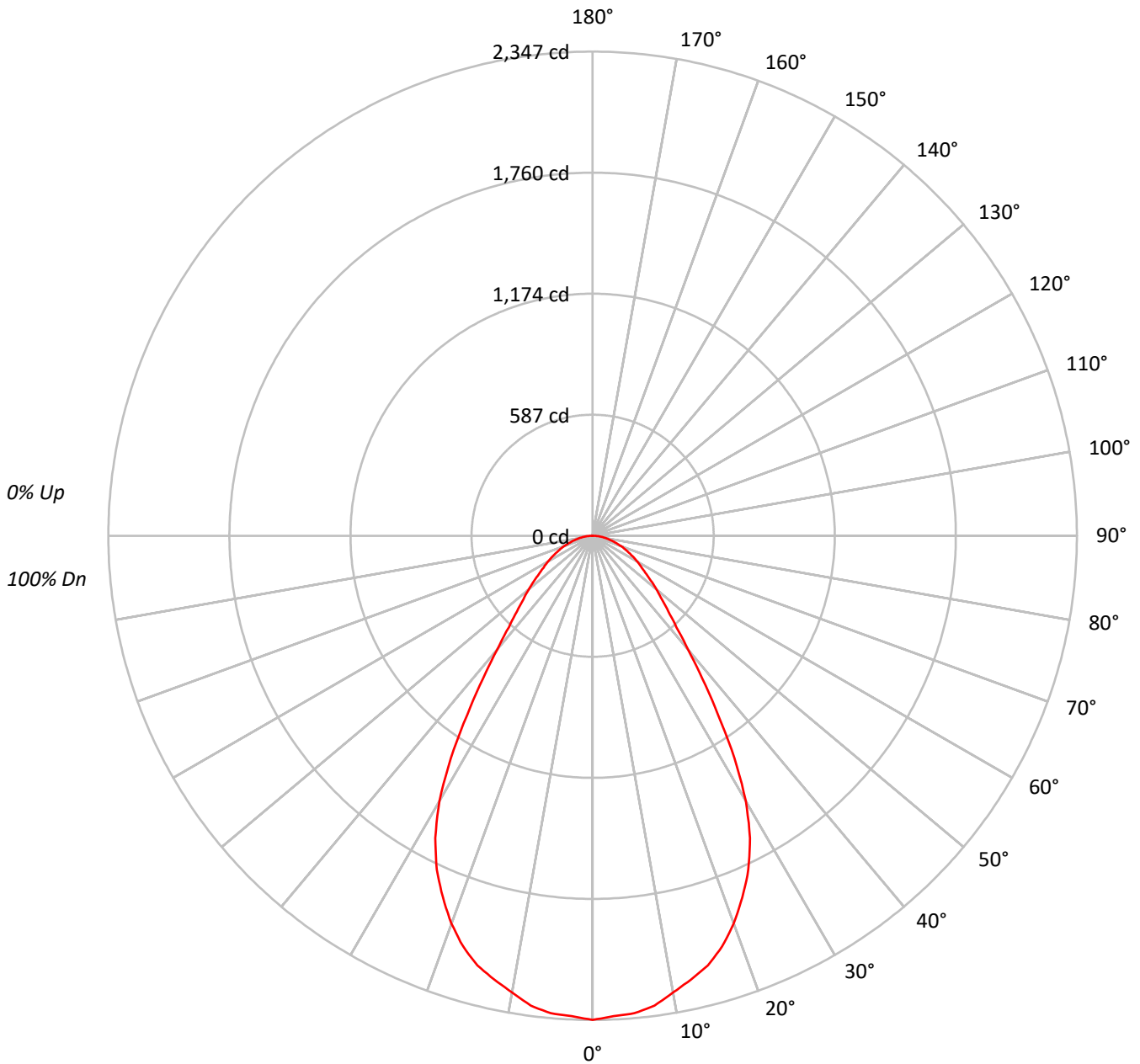
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	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	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	289468
5°	287651
10°	281533
15°	275302
20°	262576
25°	243069
30°	211433
35°	159657
40°	115722
45°	90428
50°	77332
55°	66879
60°	61623
65°	56387
70°	52689
75°	48277
80°	45176
85°	43448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	6.6
10°-20°	603.9	18.1
20°-30°	812.1	24.4
30°-40°	667.7	20.0
40°-50°	410.1	12.3
50°-60°	283.8	8.5
60°-70°	193.4	5.8
70°-80°	107.8	3.2
80°-90°	34.3	1.0
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°	1635.4	49.1
0°-40°	2303.1	69.1
0°-60°	2997.0	89.9
0°-90°	3332.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2347	
5°	2323	219
15°	2156	604
25°	1786	812
35°	1060	668
45°	518	410
55°	311	284
65°	193	193
75°	101	108
85°	31	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2346.8
2.5°	2330.3
5°	2323.2
7.5°	2297.3
10°	2247.8
12.5°	2203.0
15°	2155.9
17.5°	2087.6
20°	2000.4
22.5°	1896.8
25°	1786.0
27.5°	1651.7
30°	1484.5
32.5°	1279.4
35°	1060.3
37.5°	871.8
40°	718.7
42.5°	600.8
45°	518.4
47.5°	454.8
50°	403.0
52.5°	355.7
55°	311.0
57.5°	278.1
60°	249.8
62.5°	221.4
65°	193.2
67.5°	169.6
70°	146.1
72.5°	122.5
75°	101.3
77.5°	80.1
80°	63.6
82.5°	47.1
85°	30.7
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)