

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: P580491

Luminaire Tested: **HC435D010-HM43040930-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040930-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2961.4 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

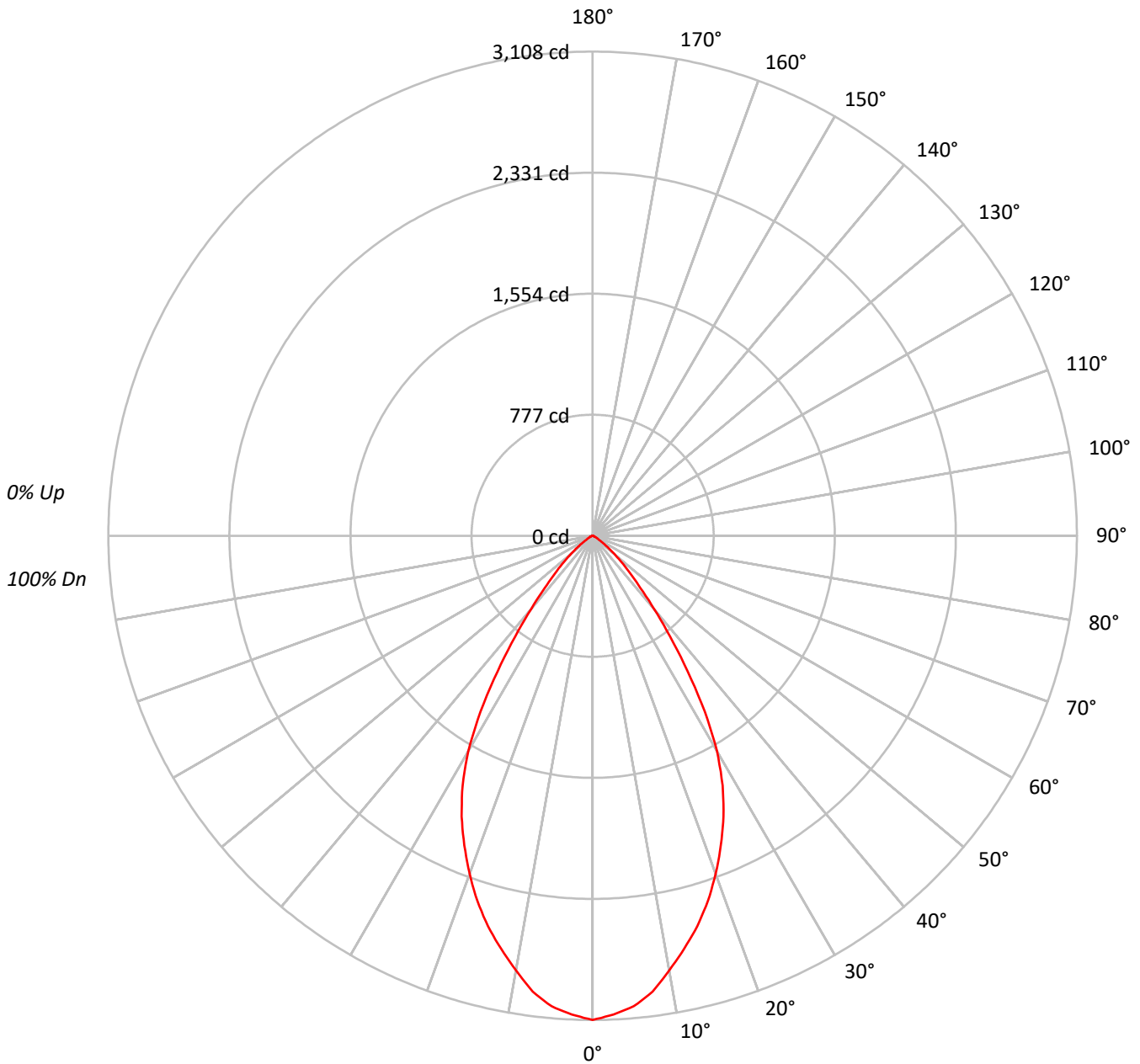
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	383383
5°	375375
10°	354741
15°	331309
20°	303018
25°	270588
30°	227228
35°	159853
40°	98606
45°	59030
50°	34790
55°	17333
60°	8955
65°	5866
70°	3642
75°	2907
80°	1421
85°	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	9.6
10°-20°	725.3	24.5
20°-30°	904.4	30.5
30°-40°	666.2	22.5
40°-50°	274.0	9.3
50°-60°	80.1	2.7
60°-70°	20.6	0.7
70°-80°	6.4	0.2
80°-90°	1.4	0.0
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°	1912.8	64.6
0°-40°	2579.1	87.1
0°-60°	2933.1	99.0
0°-90°	2961.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3108	
5°	3032	283
15°	2594	725
25°	1988	904
35°	1062	666
45°	338	274
55°	81	80
65°	20	21
75°	6	6
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3108.2
2.5°	3075.9
5°	3031.7
7.5°	2951.1
10°	2832.3
12.5°	2715.4
15°	2594.5
17.5°	2459.5
20°	2308.5
22.5°	2151.3
25°	1988.2
27.5°	1806.9
30°	1595.4
32.5°	1339.6
35°	1061.6
37.5°	815.8
40°	612.4
42.5°	453.2
45°	338.4
47.5°	249.8
50°	181.3
52.5°	124.9
55°	80.6
57.5°	48.3
60°	36.3
62.5°	26.2
65°	20.1
67.5°	14.0
70°	10.1
72.5°	8.1
75°	6.1
77.5°	4.0
80°	2.0
82.5°	2.0
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)