

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: P580444

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040835-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3403.2 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

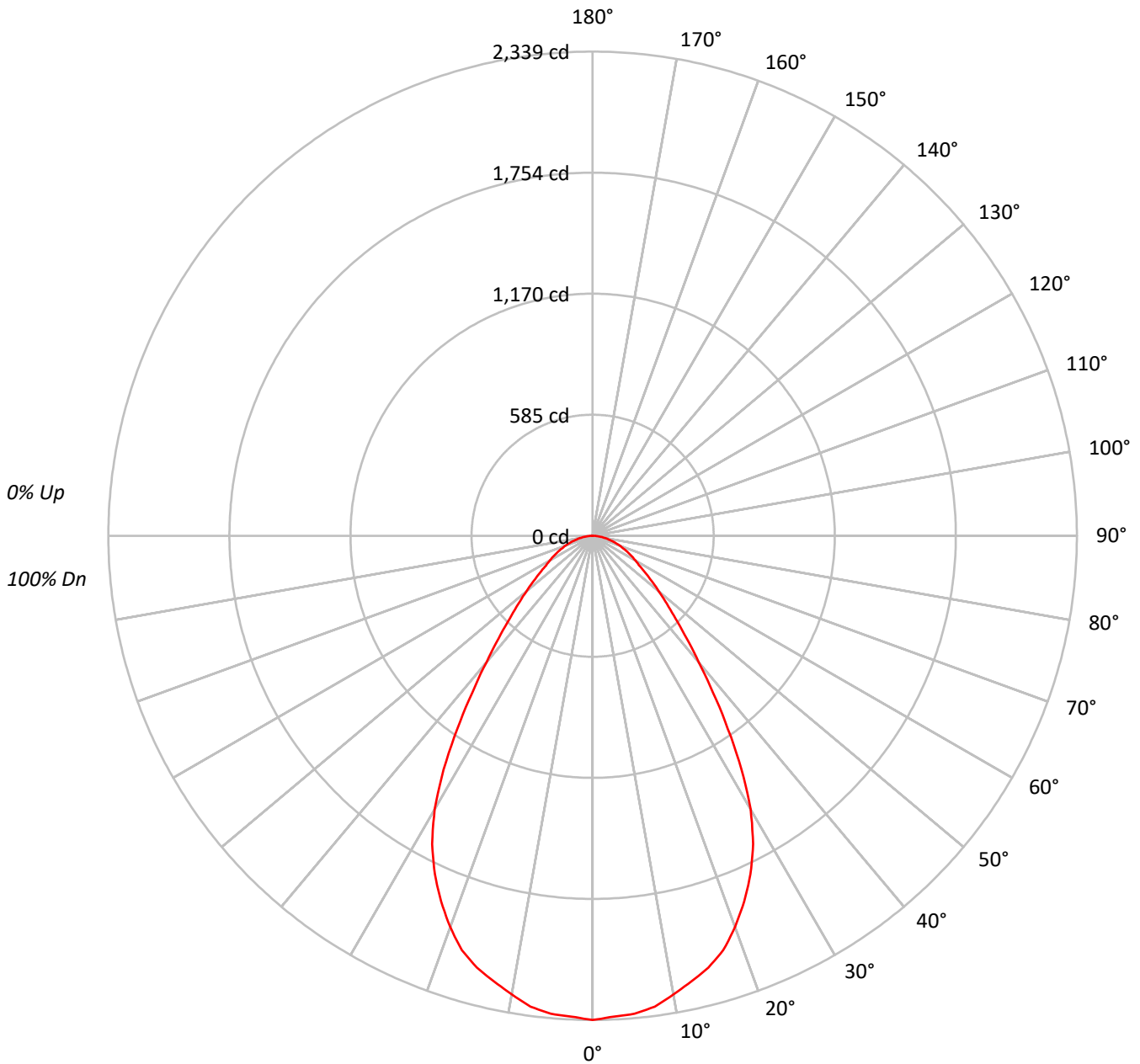
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	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	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	288530
5°	286995
10°	281759
15°	275825
20°	264020
25°	245505
30°	217287
35°	171492
40°	128330
45°	98714
50°	80076
55°	66428
60°	58762
65°	54344
70°	50201
75°	46084
80°	41838
85°	33399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	6.4
10°-20°	605.7	17.8
20°-30°	822.5	24.2
30°-40°	712.5	20.9
40°-50°	447.3	13.1
50°-60°	281.4	8.3
60°-70°	184.9	5.4
70°-80°	101.9	3.0
80°-90°	27.9	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°	1647.4	48.4
0°-40°	2359.8	69.3
0°-60°	3088.5	90.8
0°-90°	3403.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2339	
5°	2318	219
15°	2160	606
25°	1804	822
35°	1139	712
45°	566	447
55°	309	281
65°	186	185
75°	97	102
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2339.2
2.5°	2325.0
5°	2317.9
7.5°	2294.4
10°	2249.6
12.5°	2204.7
15°	2160.0
17.5°	2098.6
20°	2011.4
22.5°	1912.4
25°	1803.9
27.5°	1678.9
30°	1525.6
32.5°	1339.4
35°	1138.9
37.5°	955.0
40°	797.0
42.5°	672.0
45°	565.9
47.5°	485.8
50°	417.3
52.5°	358.4
55°	308.9
57.5°	266.5
60°	238.2
62.5°	212.2
65°	186.2
67.5°	160.4
70°	139.2
72.5°	115.5
75°	96.7
77.5°	75.4
80°	58.9
82.5°	40.1
85°	23.6
87.5°	9.4
90°	0.0



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— 0°-180°







(END OF REPORT)