

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: P580318

Luminaire Tested: **HC430D010-HM43040840-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580318
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: HC430D010-HM43040840-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2972.9 lumens
Efficiency: N/A
Efficacy: 106.2 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

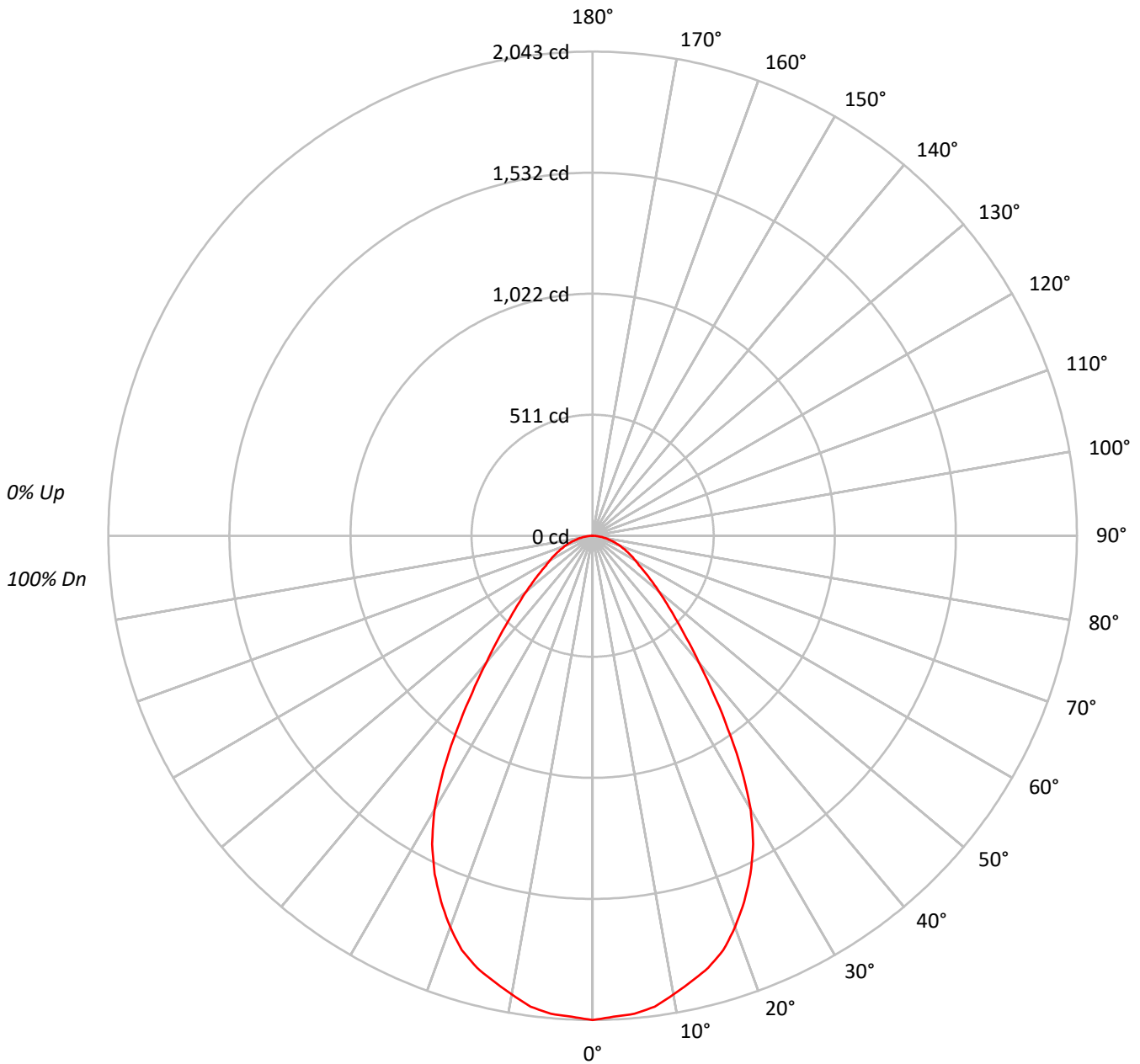
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	252044
5°	250717
10°	246126
15°	240938
20°	230640
25°	214461
30°	189813
35°	149809
40°	112100
45°	86242
50°	69964
55°	58020
60°	51312
65°	47515
70°	43818
75°	40270
80°	36581
85°	29154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	6.4
10°-20°	529.1	17.8
20°-30°	718.5	24.2
30°-40°	622.4	20.9
40°-50°	390.7	13.1
50°-60°	245.8	8.3
60°-70°	161.5	5.4
70°-80°	89.1	3.0
80°-90°	24.4	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°	1439.1	48.4
0°-40°	2061.4	69.3
0°-60°	2698.0	90.8
0°-90°	2972.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2043	
5°	2025	191
15°	1887	529
25°	1576	718
35°	995	622
45°	494	391
55°	270	246
65°	163	162
75°	84	89
85°	21	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2043.4
2.5°	2031.1
5°	2024.9
7.5°	2004.2
10°	1965.1
12.5°	1925.9
15°	1886.8
17.5°	1833.3
20°	1757.1
22.5°	1670.6
25°	1575.8
27.5°	1466.6
30°	1332.7
32.5°	1170.0
35°	994.9
37.5°	834.3
40°	696.2
42.5°	587.0
45°	494.4
47.5°	424.4
50°	364.6
52.5°	313.1
55°	269.8
57.5°	232.8
60°	208.0
62.5°	185.4
65°	162.8
67.5°	140.1
70°	121.5
72.5°	101.0
75°	84.5
77.5°	65.9
80°	51.5
82.5°	35.0
85°	20.6
87.5°	8.2
90°	0.0



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— 0°-180°







(END OF REPORT)