

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: P580319

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040840-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2833.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

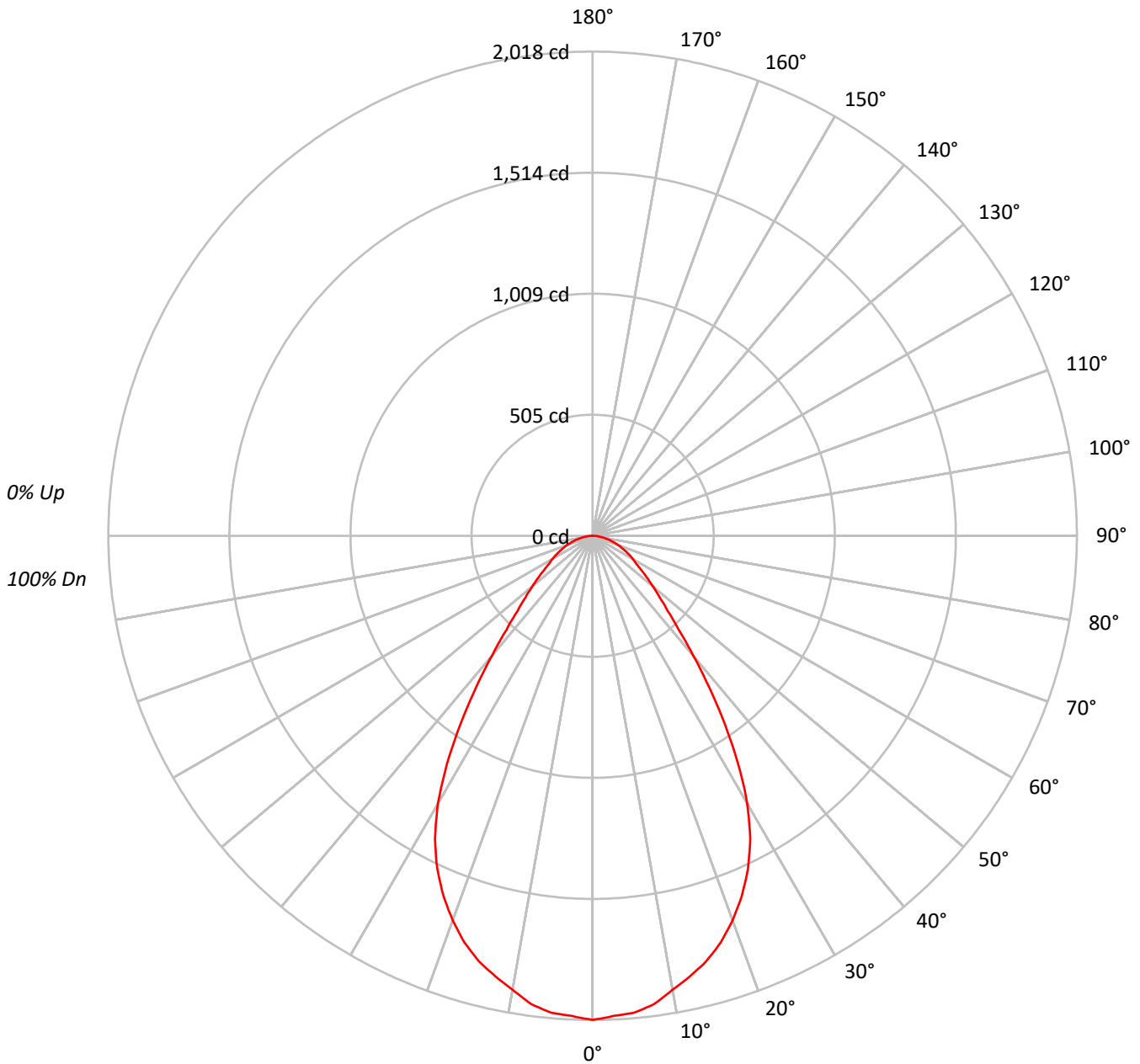
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	248887
5°	247039
10°	240602
15°	234273
20°	223788
25°	208487
30°	183589
35°	144780
40°	105095
45°	77206
50°	62806
55°	52686
60°	47759
65°	43896
70°	40860
75°	37316
80°	33669
85°	29154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	6.6
10°-20°	514.6	18.2
20°-30°	697.5	24.6
30°-40°	598.5	21.1
40°-50°	353.4	12.5
50°-60°	223.9	7.9
60°-70°	150.5	5.3
70°-80°	83.1	2.9
80°-90°	23.2	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°	1400.2	49.4
0°-40°	1998.8	70.6
0°-60°	2576.1	90.9
0°-90°	2833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2018	
5°	1995	188
15°	1835	515
25°	1532	698
35°	962	599
45°	443	353
55°	245	224
65°	150	151
75°	78	83
85°	21	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2017.8
2.5°	2003.4
5°	1995.2
7.5°	1968.4
10°	1921.0
12.5°	1879.8
15°	1834.6
17.5°	1776.9
20°	1704.9
22.5°	1624.5
25°	1531.9
27.5°	1422.7
30°	1289.0
32.5°	1130.4
35°	961.5
37.5°	798.8
40°	652.7
42.5°	531.2
45°	442.6
47.5°	378.9
50°	327.3
52.5°	284.1
55°	245.0
57.5°	214.1
60°	193.6
62.5°	172.9
65°	150.4
67.5°	131.8
70°	113.3
72.5°	94.8
75°	78.3
77.5°	61.8
80°	47.4
82.5°	32.9
85°	20.6
87.5°	8.2
90°	0.0



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— 0°-180°







(END OF REPORT)