

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: P592739

Luminaire Tested: **HC430D010-HM43040850-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592739
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: HC430D010-HM43040850-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2911.1 lumens
Efficiency: N/A
Efficacy: 104.0 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

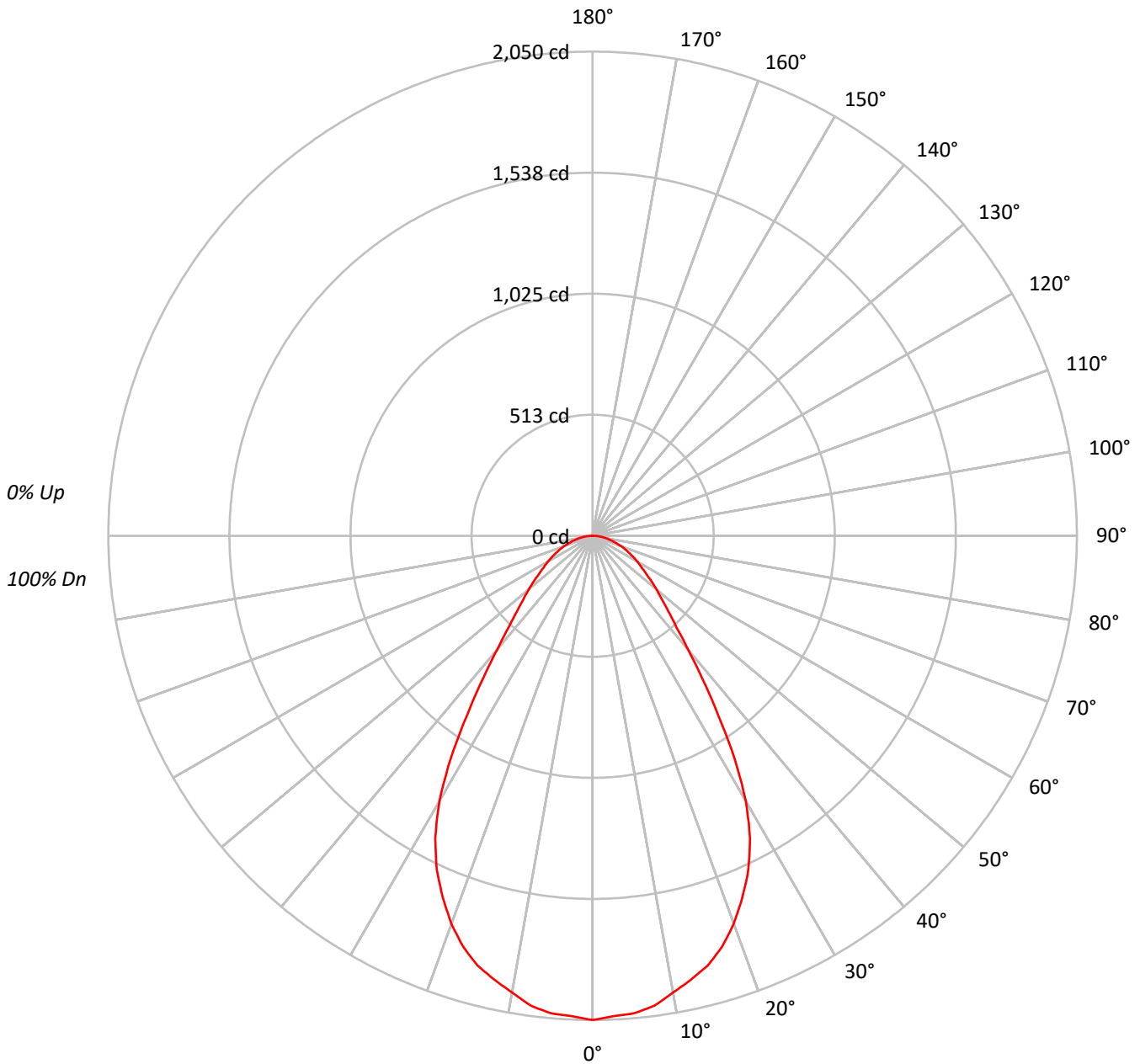
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	252859
5°	251286
10°	245938
15°	240491
20°	229380
25°	212325
30°	184685
35°	139465
40°	101070
45°	78985
50°	67527
55°	58428
60°	53828
65°	49237
70°	46017
75°	42177
80°	39494
85°	37787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	6.6
10°-20°	527.5	18.1
20°-30°	709.4	24.4
30°-40°	583.3	20.0
40°-50°	358.2	12.3
50°-60°	247.9	8.5
60°-70°	169.0	5.8
70°-80°	94.1	3.2
80°-90°	30.0	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°	1428.6	49.1
0°-40°	2011.9	69.1
0°-60°	2618.0	89.9
0°-90°	2911.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2050	
5°	2030	192
15°	1883	528
25°	1560	709
35°	926	583
45°	453	358
55°	272	248
65°	169	169
75°	88	94
85°	27	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2050.0
2.5°	2035.6
5°	2029.5
7.5°	2006.8
10°	1963.6
12.5°	1924.5
15°	1883.3
17.5°	1823.6
20°	1747.5
22.5°	1656.9
25°	1560.1
27.5°	1442.8
30°	1296.7
32.5°	1117.6
35°	926.2
37.5°	761.5
40°	627.7
42.5°	524.9
45°	452.8
47.5°	397.3
50°	351.9
52.5°	310.8
55°	271.7
57.5°	242.9
60°	218.2
62.5°	193.5
65°	168.7
67.5°	148.2
70°	127.6
72.5°	107.0
75°	88.5
77.5°	69.9
80°	55.6
82.5°	41.2
85°	26.7
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)