

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: P580354

Luminaire Tested: **HC430D010-HM43040930-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580354
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-HM43040930-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2428.9 lumens
Efficiency: N/A
Efficacy: 86.7 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

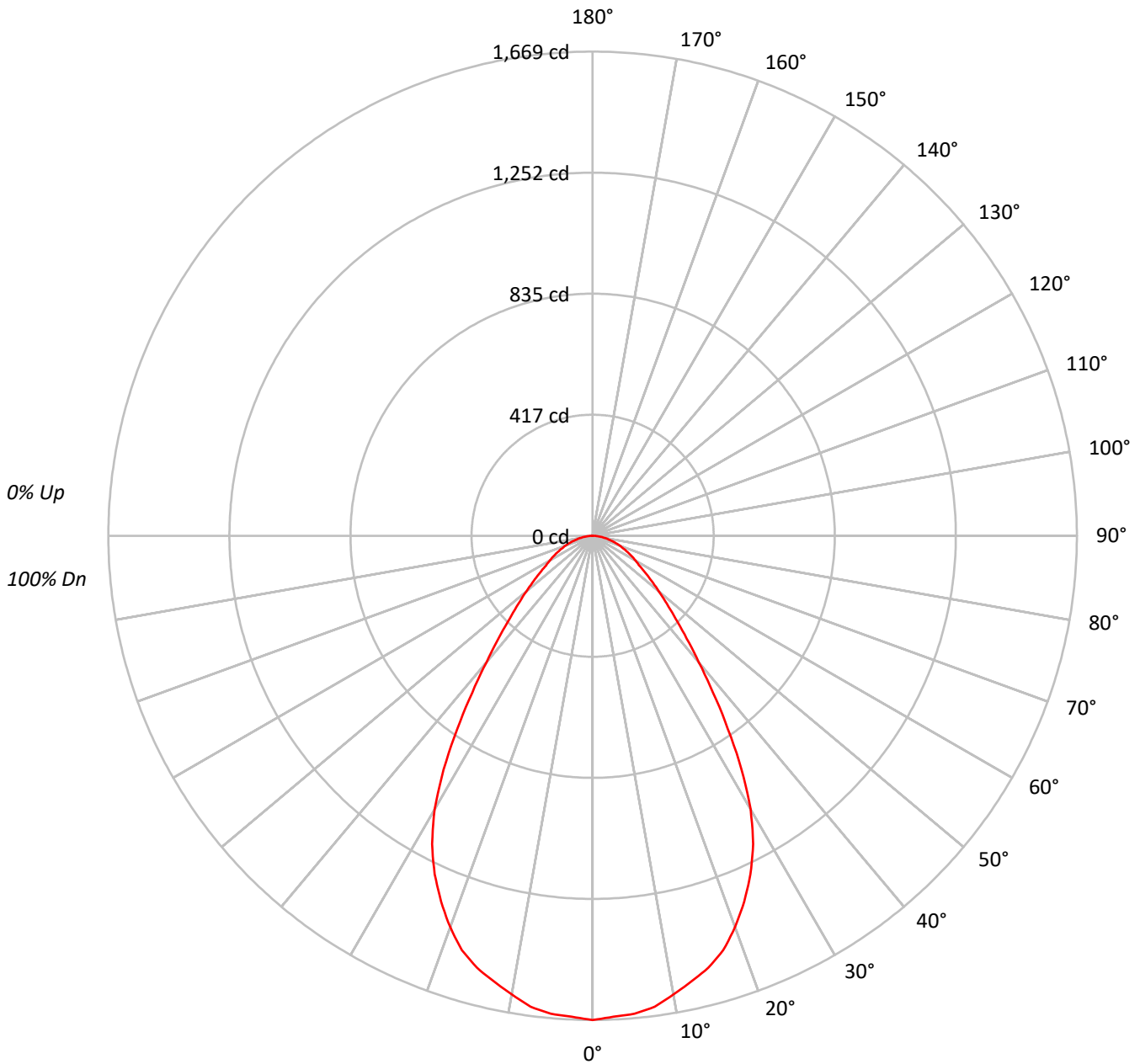
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	205913
5°	204818
10°	201086
15°	196845
20°	188426
25°	175211
30°	155089
35°	122389
40°	91602
45°	70455
50°	57165
55°	47396
60°	41938
65°	38817
70°	35811
75°	32883
80°	29904
85°	23776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	6.4
10°-20°	432.3	17.8
20°-30°	587.0	24.2
30°-40°	508.5	20.9
40°-50°	319.2	13.1
50°-60°	200.8	8.3
60°-70°	131.9	5.4
70°-80°	72.8	3.0
80°-90°	20.0	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°	1175.7	48.4
0°-40°	1684.2	69.3
0°-60°	2204.2	90.7
0°-90°	2428.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1669	
5°	1654	156
15°	1542	432
25°	1287	587
35°	813	508
45°	404	319
55°	220	201
65°	133	132
75°	69	73
85°	17	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1669.4
2.5°	1659.3
5°	1654.2
7.5°	1637.4
10°	1605.5
12.5°	1573.4
15°	1541.5
17.5°	1497.8
20°	1435.5
22.5°	1364.8
25°	1287.4
27.5°	1198.2
30°	1088.9
32.5°	955.9
35°	812.8
37.5°	681.5
40°	568.9
42.5°	479.6
45°	403.9
47.5°	346.6
50°	297.9
52.5°	255.8
55°	220.4
57.5°	190.2
60°	170.0
62.5°	151.5
65°	133.0
67.5°	114.4
70°	99.3
72.5°	82.5
75°	69.0
77.5°	53.8
80°	42.1
82.5°	28.7
85°	16.8
87.5°	6.8
90°	0.0



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— 0°-180°







(END OF REPORT)