

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: P580292

Luminaire Tested: **HC430D010-HM43040835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3175.8 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

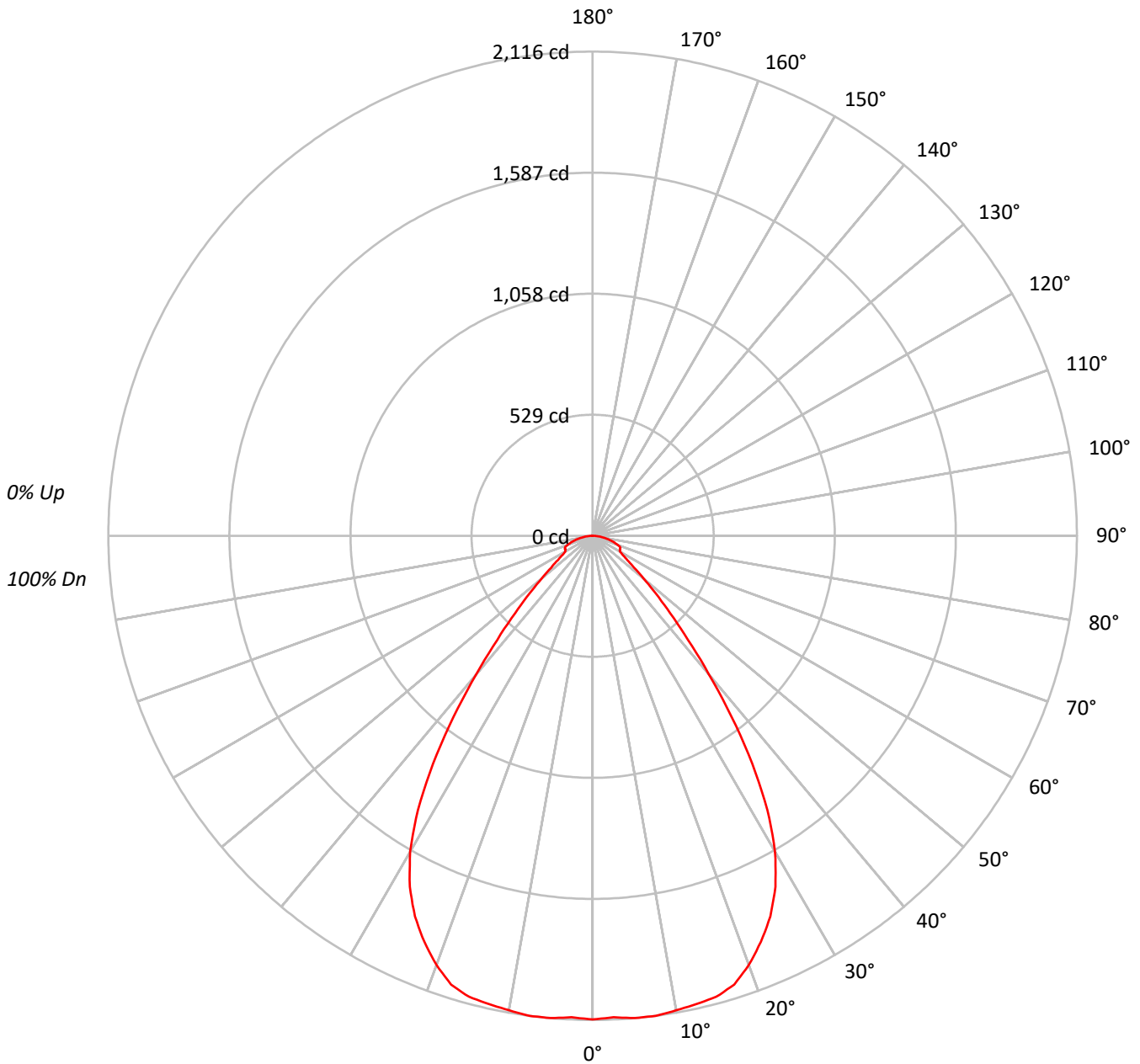
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260728
5°	261972
10°	263773
15°	266401
20°	261972
25°	249915
30°	227058
35°	183147
40°	127090
45°	83433
50°	55879
55°	39784
60°	33969
65°	39051
70°	41870
75°	40318
80°	36368
85°	33399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	6.3
10°-20°	586.1	18.5
20°-30°	837.4	26.4
30°-40°	748.0	23.6
40°-50°	383.6	12.1
50°-60°	174.4	5.5
60°-70°	130.0	4.1
70°-80°	88.5	2.8
80°-90°	26.2	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°	1625.1	51.2
0°-40°	2373.1	74.7
0°-60°	2931.1	92.3
0°-90°	3175.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3175.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2114	
5°	2116	202
15°	2086	586
25°	1836	837
35°	1216	748
45°	478	384
55°	185	174
65°	134	130
75°	85	88
85°	24	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2113.8
2.5°	2106.0
5°	2115.8
7.5°	2115.8
10°	2106.0
12.5°	2096.0
15°	2086.2
17.5°	2056.7
20°	1995.8
22.5°	1921.0
25°	1836.3
27.5°	1730.0
30°	1594.2
32.5°	1421.1
35°	1216.3
37.5°	997.8
40°	789.3
42.5°	616.0
45°	478.3
47.5°	373.9
50°	291.2
52.5°	228.3
55°	185.0
57.5°	155.4
60°	137.7
62.5°	133.8
65°	133.8
67.5°	129.9
70°	116.1
72.5°	100.4
75°	84.6
77.5°	66.9
80°	51.2
82.5°	37.4
85°	23.6
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)