

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: P580310

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580310
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-HM43040840-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

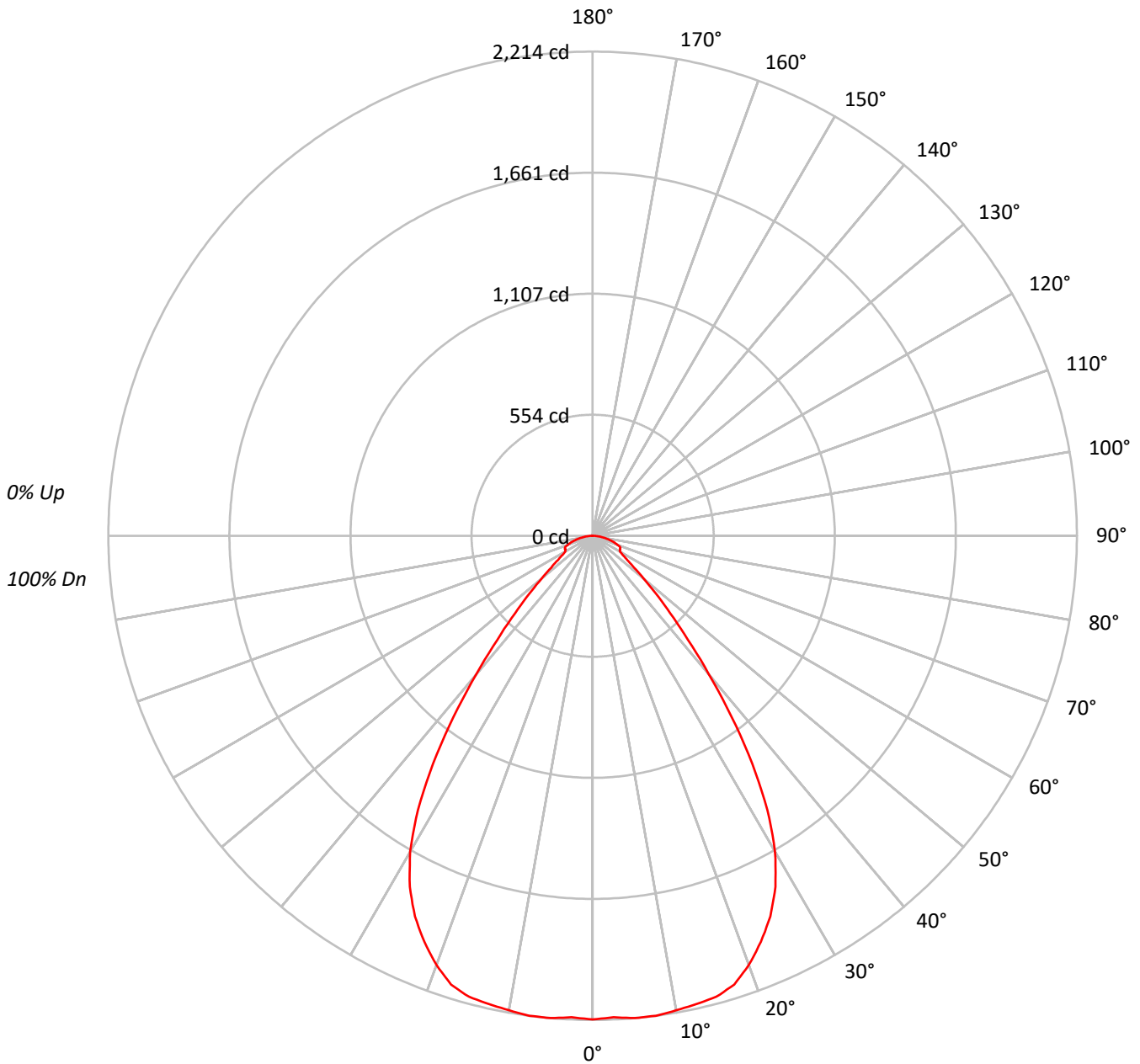
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	272804
5°	274093
10°	275972
15°	278737
20°	274101
25°	261483
30°	237569
35°	191625
40°	132967
45°	87288
50°	58489
55°	41633
60°	35573
65°	40860
70°	43818
75°	42177
80°	38073
85°	34956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	6.3
10°-20°	613.2	18.5
20°-30°	876.1	26.4
30°-40°	782.6	23.6
40°-50°	401.4	12.1
50°-60°	182.5	5.5
60°-70°	136.1	4.1
70°-80°	92.6	2.8
80°-90°	27.4	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°	1700.3	51.2
0°-40°	2482.9	74.7
0°-60°	3066.9	92.3
0°-90°	3323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2212	
5°	2214	211
15°	2183	613
25°	1921	876
35°	1273	783
45°	500	401
55°	194	182
65°	140	136
75°	88	93
85°	25	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2211.7
2.5°	2203.4
5°	2213.7
7.5°	2213.7
10°	2203.4
12.5°	2193.2
15°	2182.8
17.5°	2152.0
20°	2088.2
22.5°	2009.9
25°	1921.3
27.5°	1810.1
30°	1668.0
32.5°	1486.8
35°	1272.6
37.5°	1044.1
40°	825.8
42.5°	644.5
45°	500.4
47.5°	391.3
50°	304.8
52.5°	238.9
55°	193.6
57.5°	162.7
60°	144.2
62.5°	140.0
65°	140.0
67.5°	135.9
70°	121.5
72.5°	105.0
75°	88.5
77.5°	70.0
80°	53.6
82.5°	39.1
85°	24.7
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)