

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: P580346

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580346
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-HM43040930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2714.7 lumens
Efficiency: N/A
Efficacy: 97.0 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

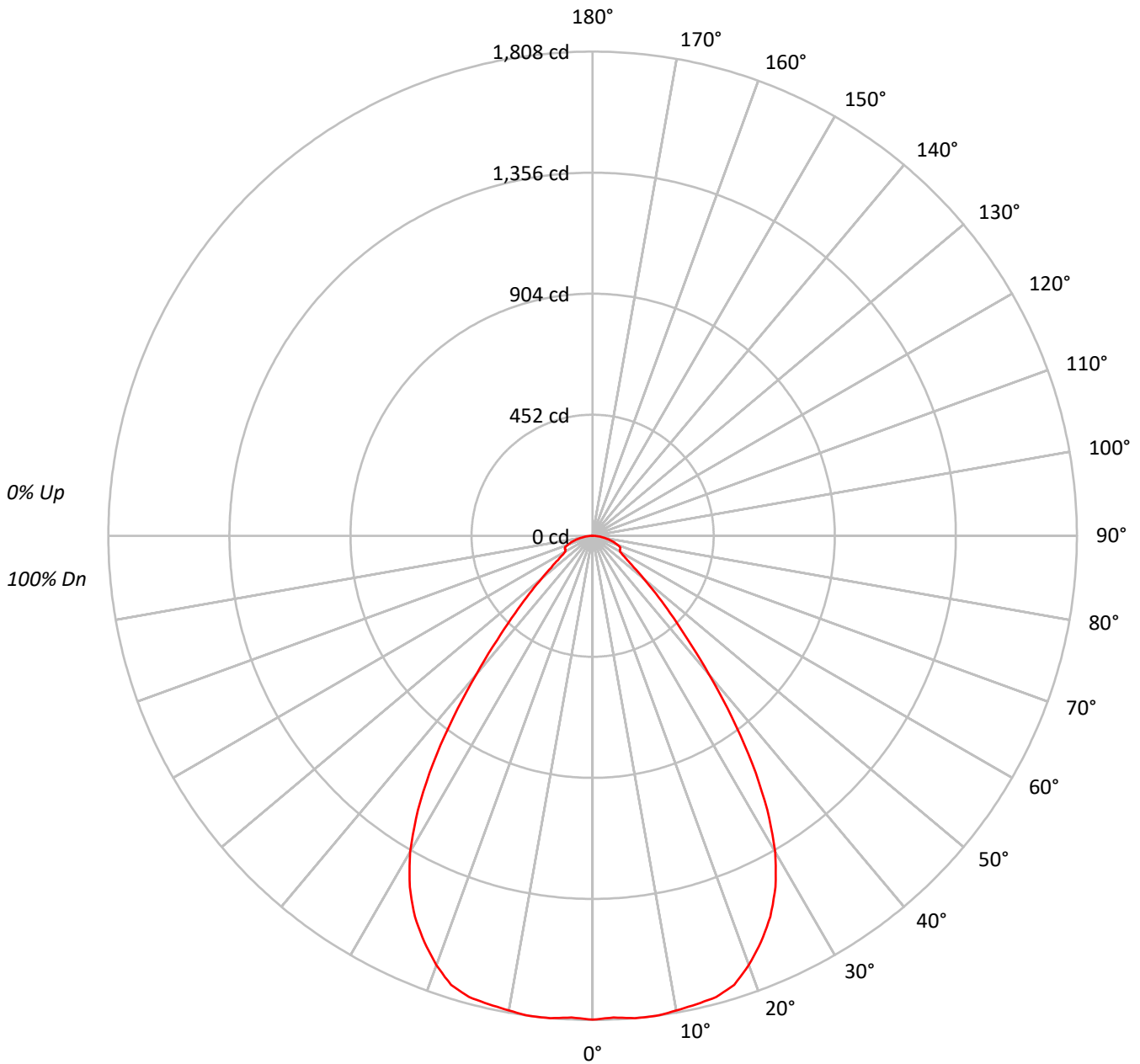
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	222861
5°	223923
10°	225472
15°	227722
20°	223919
25°	213618
30°	194086
35°	156555
40°	108638
45°	71310
50°	47762
55°	33999
60°	29060
65°	33389
70°	35811
75°	34456
80°	31112
85°	28588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	6.3
10°-20°	501.0	18.5
20°-30°	715.7	26.4
30°-40°	639.4	23.6
40°-50°	328.0	12.1
50°-60°	149.0	5.5
60°-70°	111.2	4.1
70°-80°	75.6	2.8
80°-90°	22.4	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°	1389.1	51.2
0°-40°	2028.5	74.7
0°-60°	2505.5	92.3
0°-90°	2714.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2714.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1807	
5°	1808	172
15°	1783	501
25°	1570	716
35°	1040	639
45°	409	328
55°	158	149
65°	114	111
75°	72	76
85°	20	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1806.8
2.5°	1800.2
5°	1808.5
7.5°	1808.5
10°	1800.2
12.5°	1791.7
15°	1783.3
17.5°	1758.1
20°	1705.9
22.5°	1642.0
25°	1569.6
27.5°	1478.8
30°	1362.7
32.5°	1214.6
35°	1039.7
37.5°	853.0
40°	674.7
42.5°	526.6
45°	408.8
47.5°	319.7
50°	248.9
52.5°	195.1
55°	158.1
57.5°	132.9
60°	117.8
62.5°	114.4
65°	114.4
67.5°	111.0
70°	99.3
72.5°	85.8
75°	72.3
77.5°	57.2
80°	43.8
82.5°	31.9
85°	20.2
87.5°	8.5
90°	0.0



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— 0°-180°







(END OF REPORT)