

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: P580364

Luminaire Tested: **HC430D010-HM43040935-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580364
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-HM43040935-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2831.6 lumens
Efficiency: N/A
Efficacy: 101.1 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

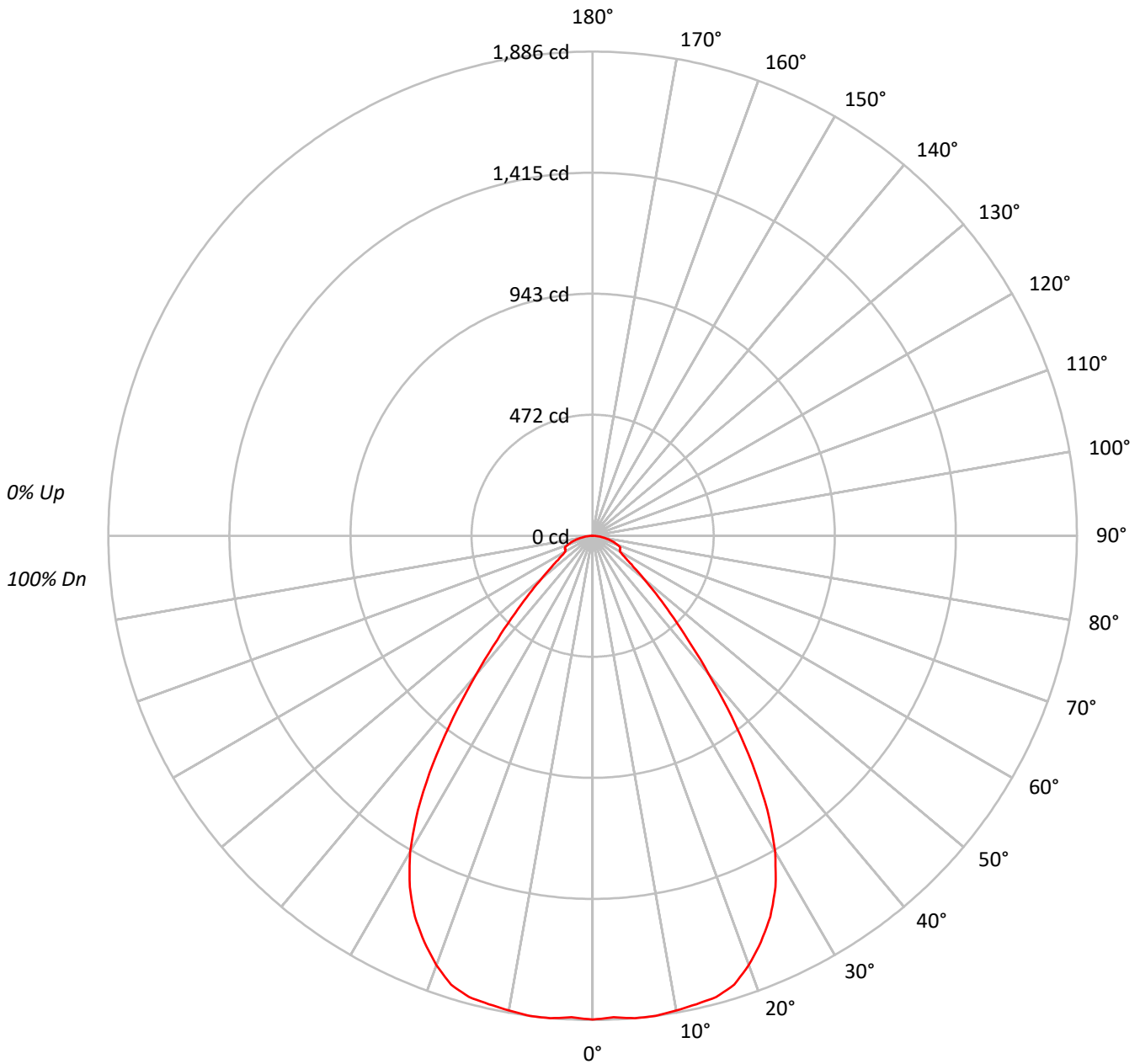
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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°	232445
5°	233568
10°	235166
15°	237529
20°	233554
25°	222818
30°	202446
35°	163301
40°	113291
45°	74380
50°	49834
55°	35461
60°	30294
65°	34819
70°	37362
75°	35981
80°	32391
85°	29861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	6.3
10°-20°	522.5	18.5
20°-30°	746.5	26.4
30°-40°	666.9	23.6
40°-50°	342.0	12.1
50°-60°	155.5	5.5
60°-70°	115.9	4.1
70°-80°	78.9	2.8
80°-90°	23.4	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°	1448.8	51.2
0°-40°	2115.8	74.7
0°-60°	2613.3	92.3
0°-90°	2831.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1884	
5°	1886	180
15°	1860	523
25°	1637	747
35°	1084	667
45°	426	342
55°	165	155
65°	119	116
75°	76	79
85°	21	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1884.5
2.5°	1877.6
5°	1886.4
7.5°	1886.4
10°	1877.6
12.5°	1868.8
15°	1860.1
17.5°	1833.7
20°	1779.3
22.5°	1712.6
25°	1637.2
27.5°	1542.4
30°	1421.4
32.5°	1267.0
35°	1084.5
37.5°	889.7
40°	703.6
42.5°	549.2
45°	426.4
47.5°	333.4
50°	259.7
52.5°	203.6
55°	164.9
57.5°	138.6
60°	122.8
62.5°	119.3
65°	119.3
67.5°	115.8
70°	103.6
72.5°	89.5
75°	75.5
77.5°	59.7
80°	45.6
82.5°	33.4
85°	21.1
87.5°	8.8
90°	0.0



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— 0°-180°







(END OF REPORT)