

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: P580345

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040930-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2181.6 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

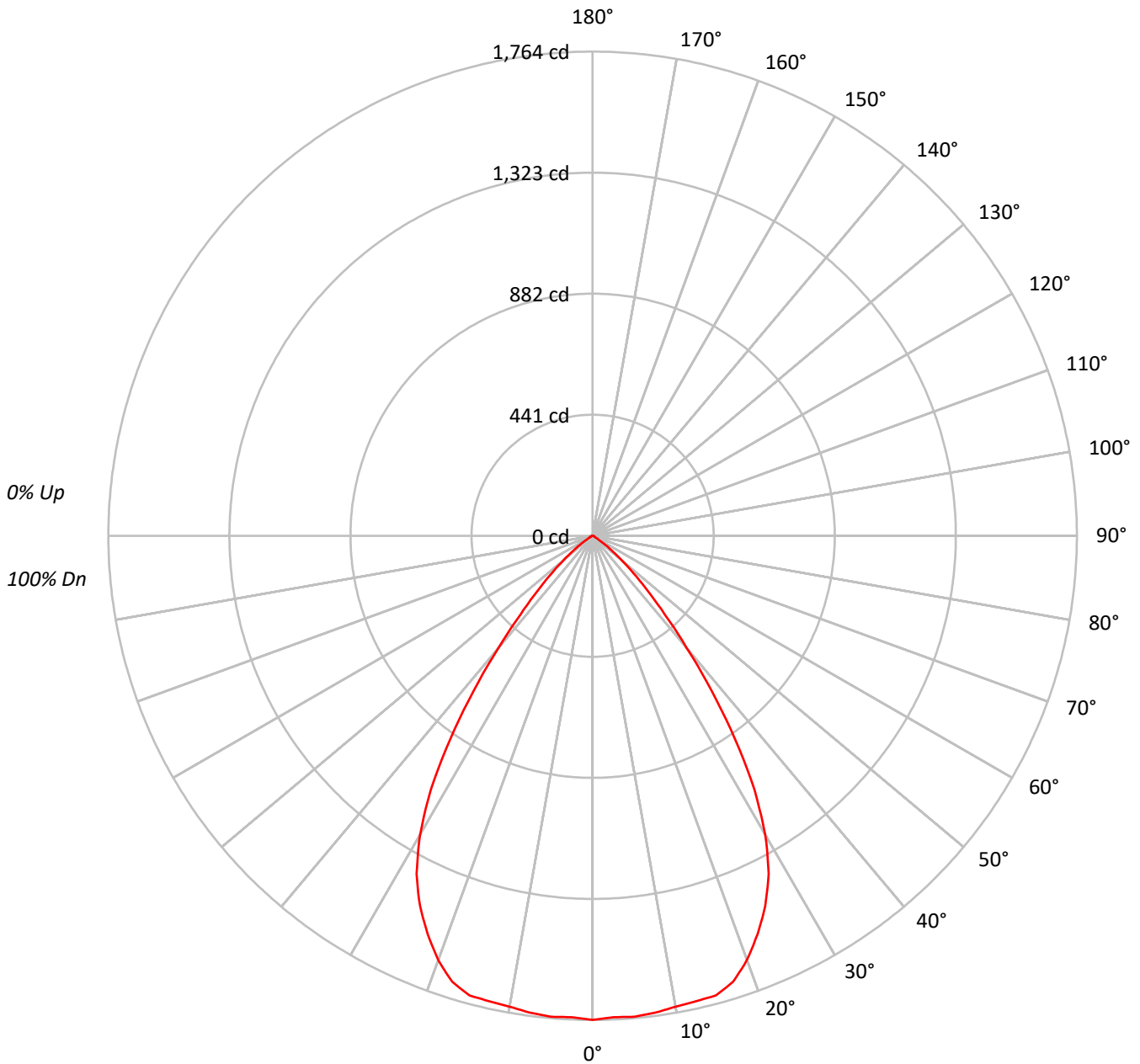
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	217569
5°	217769
10°	218183
15°	221375
20°	215860
25°	202526
30°	179131
35°	136227
40°	85822
45°	49278
50°	26116
55°	10838
60°	2886
65°	2481
70°	1839
75°	1620
80°	1208
85°	2406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	7.7
10°-20°	485.4	22.3
20°-30°	677.5	31.1
30°-40°	557.5	25.6
40°-50°	229.6	10.5
50°-60°	51.7	2.4
60°-70°	8.3	0.4
70°-80°	3.1	0.1
80°-90°	1.2	0.1
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°	1330.1	61.0
0°-40°	1887.6	86.5
0°-60°	2169.0	99.4
0°-90°	2181.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1764	
5°	1759	167
15°	1734	485
25°	1488	677
35°	905	557
45°	282	230
55°	50	52
65°	8	8
75°	3	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1763.9
2.5°	1755.4
5°	1758.8
7.5°	1752.1
10°	1742.0
12.5°	1736.9
15°	1733.6
17.5°	1703.3
20°	1644.5
22.5°	1570.5
25°	1488.1
27.5°	1388.9
30°	1257.7
32.5°	1096.3
35°	904.7
37.5°	711.2
40°	533.0
42.5°	388.4
45°	282.5
47.5°	201.8
50°	136.1
52.5°	85.7
55°	50.4
57.5°	25.3
60°	11.7
62.5°	10.0
65°	8.5
67.5°	6.8
70°	5.1
72.5°	3.4
75°	3.4
77.5°	1.7
80°	1.7
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)