

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: P580328

Luminaire Tested: **HC430D010-HM43040927-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580328
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-HM43040927-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2529.4 lumens
Efficiency: N/A
Efficacy: 90.3 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

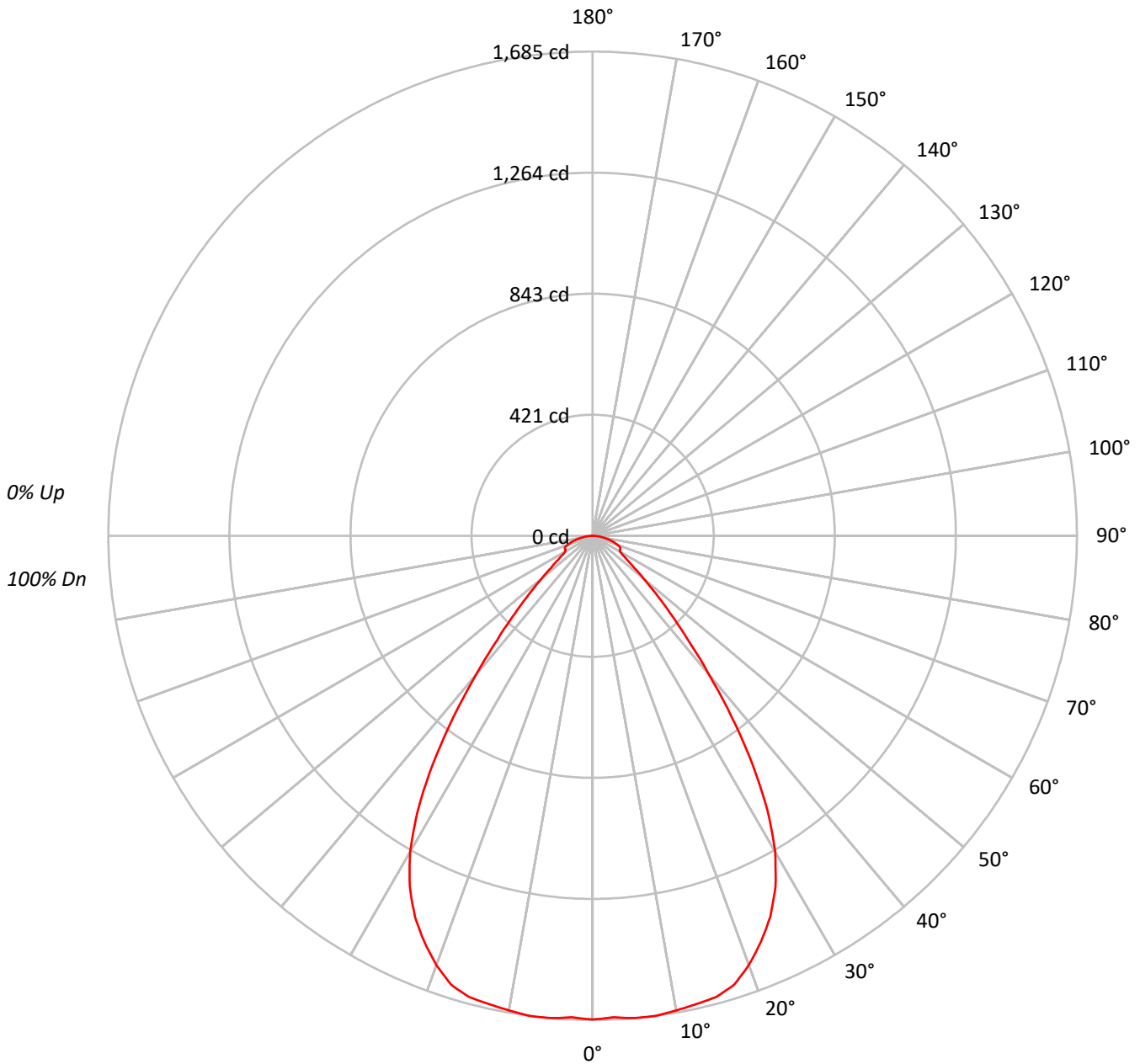
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	207652
5°	208644
10°	210067
15°	212168
20°	208640
25°	199055
30°	180840
35°	145864
40°	101215
45°	66443
50°	44519
55°	31676
60°	27087
65°	31112
70°	33359
75°	32169
80°	28910
85°	26606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	6.3
10°-20°	466.8	18.5
20°-30°	666.9	26.4
30°-40°	595.8	23.6
40°-50°	305.6	12.1
50°-60°	138.9	5.5
60°-70°	103.6	4.1
70°-80°	70.5	2.8
80°-90°	20.9	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°	1294.3	51.2
0°-40°	1890.0	74.7
0°-60°	2334.5	92.3
0°-90°	2529.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2529.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1684	
5°	1685	161
15°	1662	467
25°	1463	667
35°	969	596
45°	381	306
55°	147	139
65°	107	104
75°	68	70
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1683.5
2.5°	1677.2
5°	1685.1
7.5°	1685.1
10°	1677.2
12.5°	1669.4
15°	1661.5
17.5°	1638.1
20°	1589.5
22.5°	1529.9
25°	1462.6
27.5°	1377.9
30°	1269.7
32.5°	1131.7
35°	968.7
37.5°	794.8
40°	628.6
42.5°	490.7
45°	380.9
47.5°	297.8
50°	232.0
52.5°	181.8
55°	147.3
57.5°	123.9
60°	109.8
62.5°	106.6
65°	106.6
67.5°	103.4
70°	92.5
72.5°	80.0
75°	67.5
77.5°	53.2
80°	40.7
82.5°	29.8
85°	18.8
87.5°	7.8
90°	0.0



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— 0°-180°







(END OF REPORT)