

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: P580209

Luminaire Tested: **HC425D010-HM40525930-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525930-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2384.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

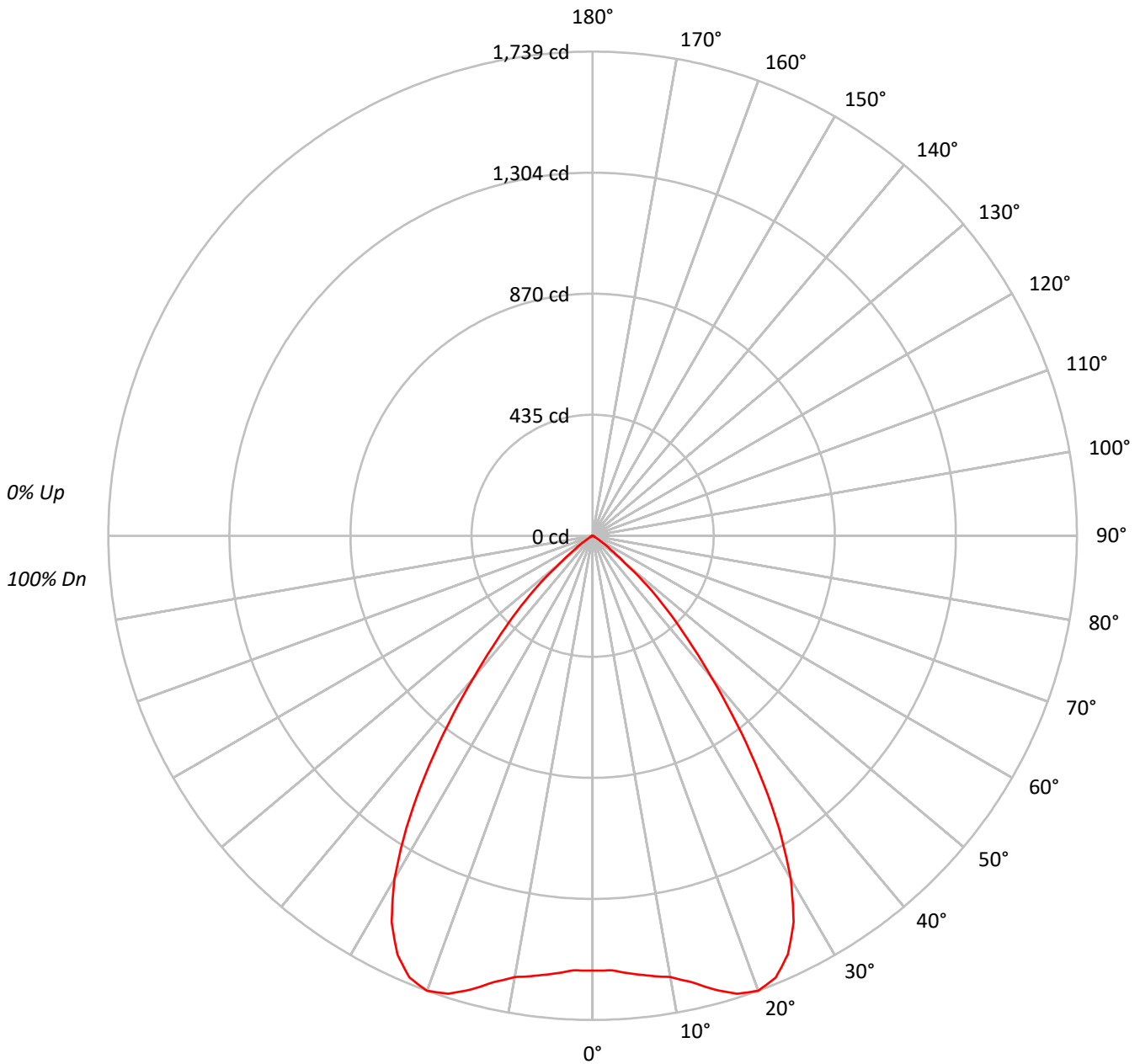
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																											
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																											
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																											
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71																											
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65																											
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60																											
7	79	69	62	57	78	68	62	57	67	61	57	66	60	57	64	60	56	55																											
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51																											
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																											
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	192654
5°	195470
10°	201600
15°	215424
20°	228251
25°	225757
30°	202631
35°	157700
40°	106834
45°	66705
50°	28861
55°	9656
60°	2418
65°	1634
70°	1010
75°	667
80°	994
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	6.4
10°-20°	478.9	20.1
20°-30°	750.3	31.5
30°-40°	647.6	27.2
40°-50°	297.8	12.5
50°-60°	50.6	2.1
60°-70°	5.7	0.2
70°-80°	2.0	0.1
80°-90°	0.2	0.0
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°	1380.8	57.9
0°-40°	2028.4	85.1
0°-60°	2376.7	99.7
0°-90°	2384.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2384.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1562	
5°	1579	152
15°	1687	479
25°	1659	750
35°	1047	648
45°	382	298
55°	45	51
65°	6	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1561.9
2.5°	1561.9
5°	1578.7
7.5°	1594.1
10°	1609.6
12.5°	1641.9
15°	1687.0
17.5°	1724.9
20°	1738.9
22.5°	1717.9
25°	1658.8
27.5°	1563.2
30°	1422.7
32.5°	1245.5
35°	1047.3
37.5°	847.7
40°	663.5
42.5°	507.5
45°	382.4
47.5°	268.5
50°	150.4
52.5°	83.0
55°	44.9
57.5°	22.5
60°	9.8
62.5°	7.0
65°	5.6
67.5°	4.2
70°	2.8
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)