

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: P592713

Luminaire Tested: **HC425D010-HM40525950-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525950-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.9 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

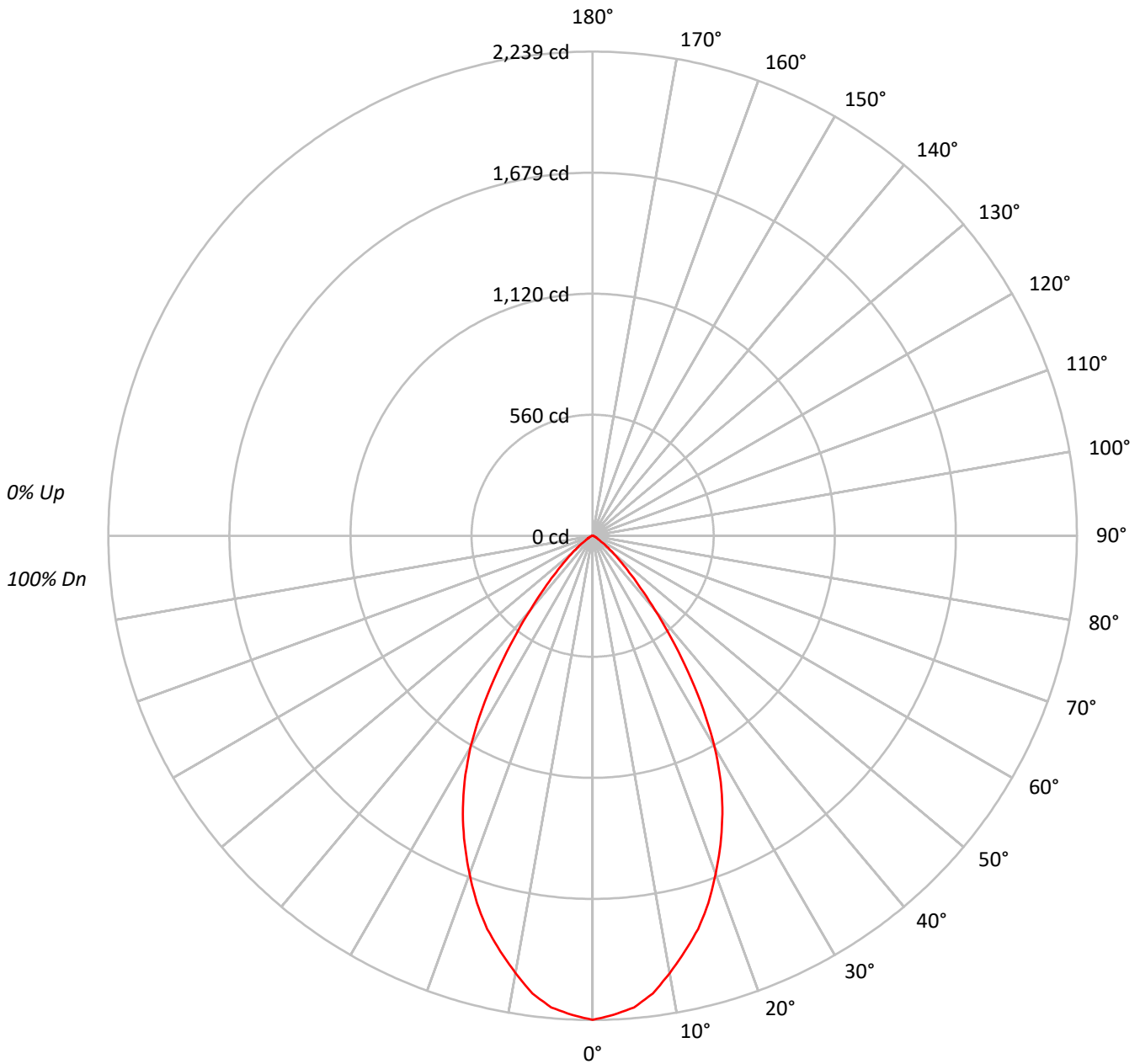
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	276122
5°	271109
10°	257148
15°	240428
20°	218367
25°	193230
30°	160729
35°	115914
40°	72329
45°	41725
50°	23526
55°	11225
60°	6439
65°	4903
70°	3282
75°	2192
80°	2131
85°	2264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	9.6
10°-20°	525.2	24.7
20°-30°	646.0	30.3
30°-40°	479.8	22.5
40°-50°	195.0	9.2
50°-60°	54.0	2.5
60°-70°	16.8	0.8
70°-80°	5.6	0.3
80°-90°	1.7	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°	1375.9	64.6
0°-40°	1855.7	87.2
0°-60°	2104.8	98.9
0°-90°	2128.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2128.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2239	
5°	2190	205
15°	1883	525
25°	1420	646
35°	770	480
45°	239	195
55°	52	54
65°	17	17
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2238.6
2.5°	2217.1
5°	2189.6
7.5°	2134.4
10°	2053.1
12.5°	1968.8
15°	1882.8
17.5°	1780.1
20°	1663.6
22.5°	1545.6
25°	1419.8
27.5°	1283.3
30°	1128.5
32.5°	952.2
35°	769.8
37.5°	598.0
40°	449.2
42.5°	328.1
45°	239.2
47.5°	171.7
50°	122.6
52.5°	84.3
55°	52.2
57.5°	33.8
60°	26.1
62.5°	21.5
65°	16.8
67.5°	12.3
70°	9.1
72.5°	7.7
75°	4.6
77.5°	3.0
80°	3.0
82.5°	1.6
85°	1.6
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)