

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: P584204

Luminaire Tested: **HC825D010-HM82555935-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555935-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2367.2 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

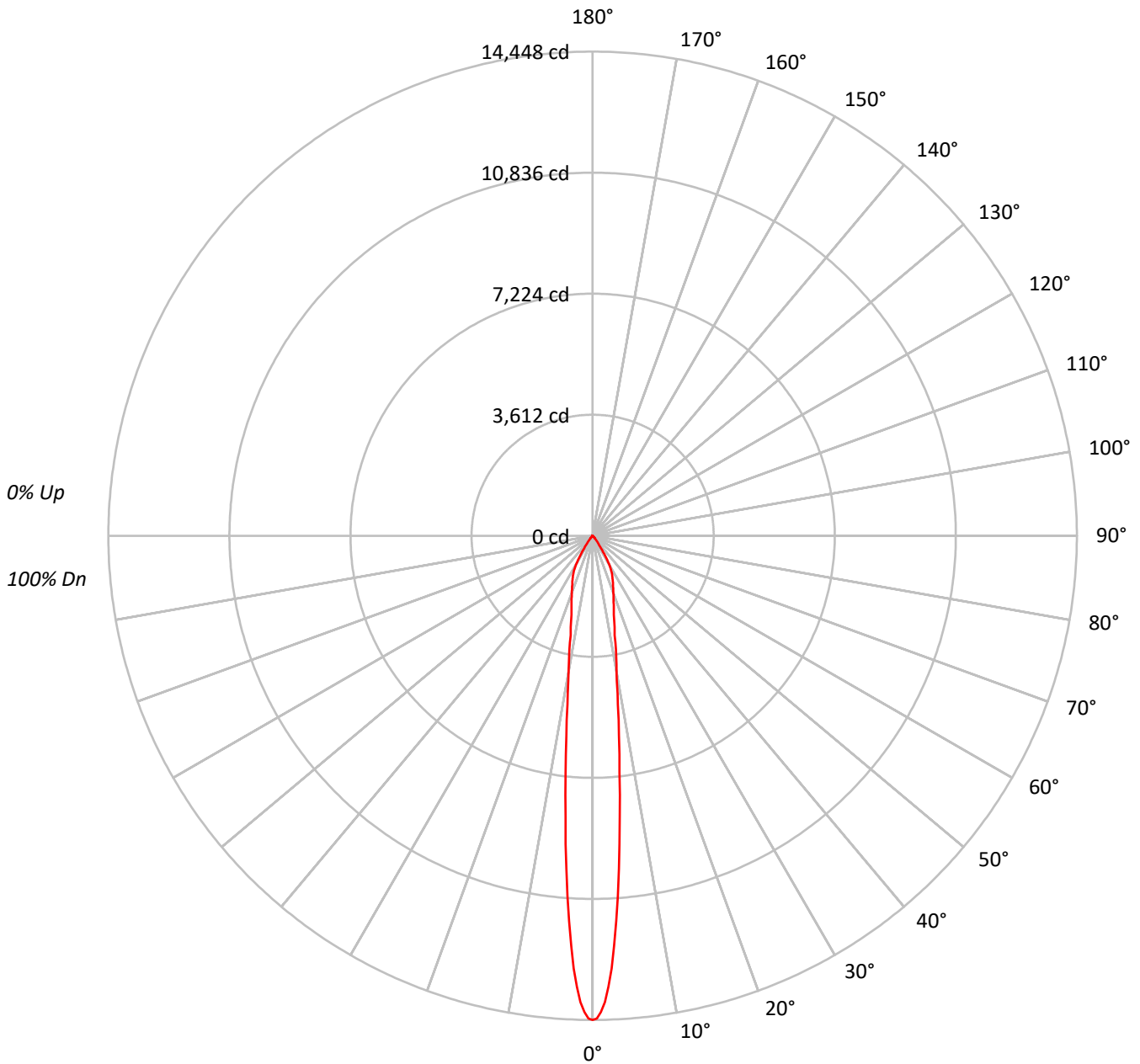
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	445535
5°	285778
10°	129096
15°	77892
20°	59356
25°	47937
30°	35126
35°	12720
40°	4746
45°	2154
50°	686
55°	172
60°	99
65°	117
70°	0
75°	0
80°	284
85°	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.1	29.7
10°-20°	715.2	30.2
20°-30°	640.2	27.0
30°-40°	257.9	10.9
40°-50°	42.3	1.8
50°-60°	3.8	0.2
60°-70°	1.4	0.1
70°-80°	1.1	0.0
80°-90°	1.5	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°	2059.6	87.0
0°-40°	2317.5	97.9
0°-60°	2363.6	99.8
0°-90°	2367.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14448	
5°	9232	704
15°	2440	715
25°	1409	640
35°	338	258
45°	49	42
55°	3	4
65°	2	1
75°	0	1
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14448.4
0.5°	14403.8
1°	14217.4
1.5°	13917.8
2°	13463.6
2.5°	12926.5
3°	12254.0
3.5°	11516.1
4°	10786.1
4.5°	9968.5
5°	9232.3
5.5°	8430.6
6°	7780.4
6.5°	7103.1
7°	6570.8
7.5°	6008.3
8°	5555.7
8.5°	5101.4
9°	4760.3
9.5°	4384.2
10°	4122.9
12.5°	3040.7
15°	2439.9
17.5°	2084.6
20°	1808.8
22.5°	1589.0
25°	1408.9
27.5°	1228.8
30°	986.5
32.5°	634.3
35°	337.9
37.5°	186.5
40°	117.9
42.5°	78.1
45°	49.4
47.5°	30.3
50°	14.3
52.5°	4.8
55°	3.2
57.5°	1.6
60°	1.6
62.5°	1.6
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	1.6
80°	1.6
82.5°	1.6
85°	1.6
87.5°	1.6
90°	0.0



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— 0°-180°







67.5°		1.6
70°		0.0



(END OF REPORT)