

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: P584102

Luminaire Tested: **HC825D010-HM82555827-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584102
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-HM82555827-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2452.1 lumens
Efficiency: N/A
Efficacy: 91.5 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

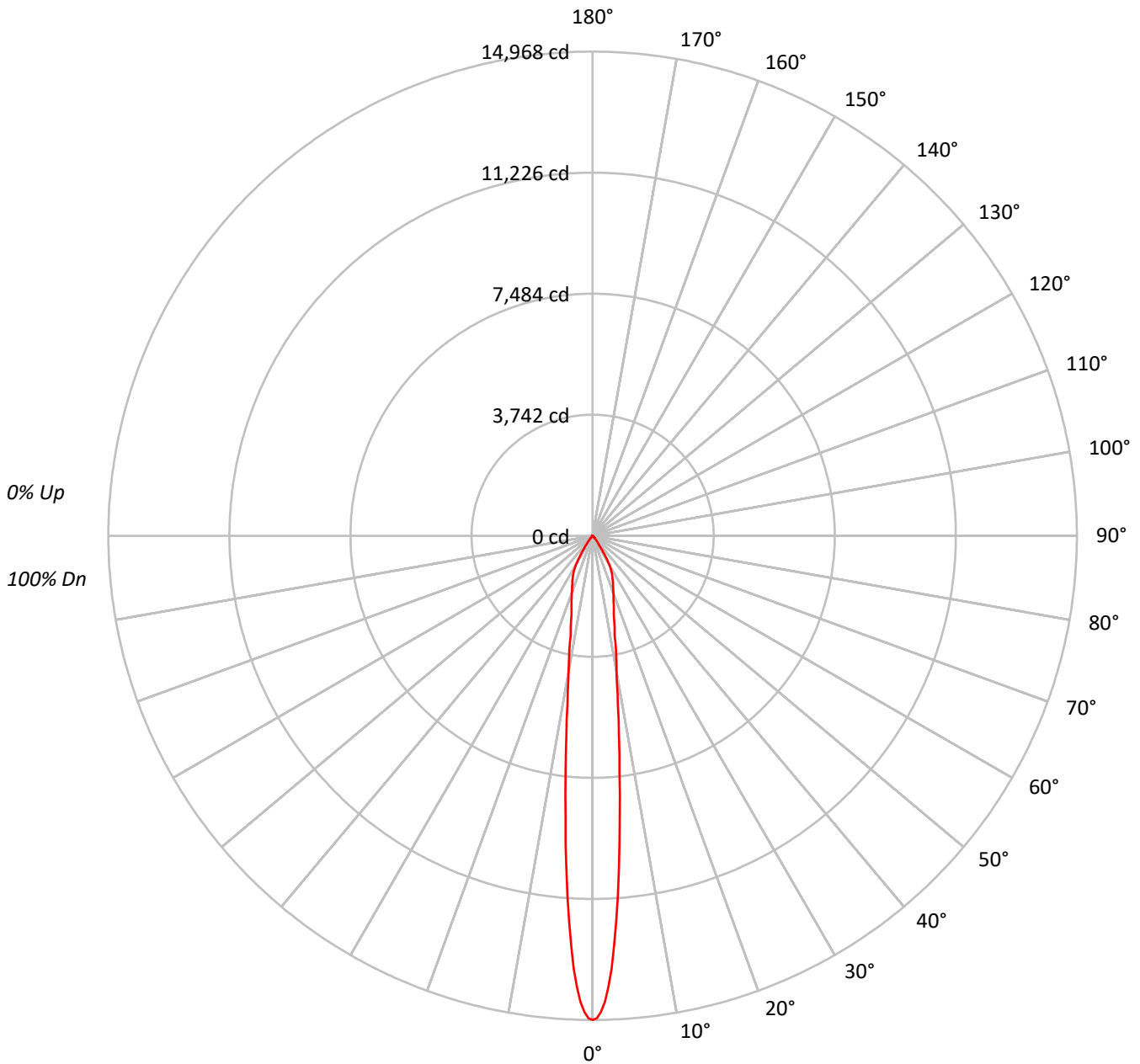
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	461549
5°	296048
10°	133734
15°	80695
20°	61493
25°	49658
30°	36390
35°	13175
40°	4919
45°	2228
50°	715
55°	177
60°	99
65°	117
70°	0
75°	0
80°	284
85°	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.4	29.7
10°-20°	740.9	30.2
20°-30°	663.2	27.0
30°-40°	267.2	10.9
40°-50°	43.8	1.8
50°-60°	4.0	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°	2133.6	87.0
0°-40°	2400.7	97.9
0°-60°	2448.5	99.9
0°-90°	2452.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14968	
5°	9564	729
15°	2528	741
25°	1460	663
35°	350	267
45°	51	44
55°	3	4
65°	2	1
75°	0	1
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14967.7
0.5°	14921.5
1°	14728.3
1.5°	14417.9
2°	13947.4
2.5°	13391.0
3°	12694.3
3.5°	11930.0
4°	11173.8
4.5°	10326.8
5°	9564.1
5.5°	8733.7
6°	8060.0
6.5°	7358.4
7°	6806.9
7.5°	6224.2
8°	5755.3
8.5°	5284.7
9°	4931.4
9.5°	4541.8
10°	4271.0
12.5°	3150.1
15°	2527.7
17.5°	2159.5
20°	1873.9
22.5°	1646.0
25°	1459.5
27.5°	1272.9
30°	1022.0
32.5°	657.1
35°	350.0
37.5°	193.1
40°	122.2
42.5°	80.9
45°	51.1
47.5°	31.4
50°	14.9
52.5°	4.9
55°	3.3
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)