

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: P584578

Luminaire Tested: **HC840D010-HM82555927-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584578
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: HC840D010-HM82555927-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3704.2 lumens
Efficiency: N/A
Efficacy: 90.3 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

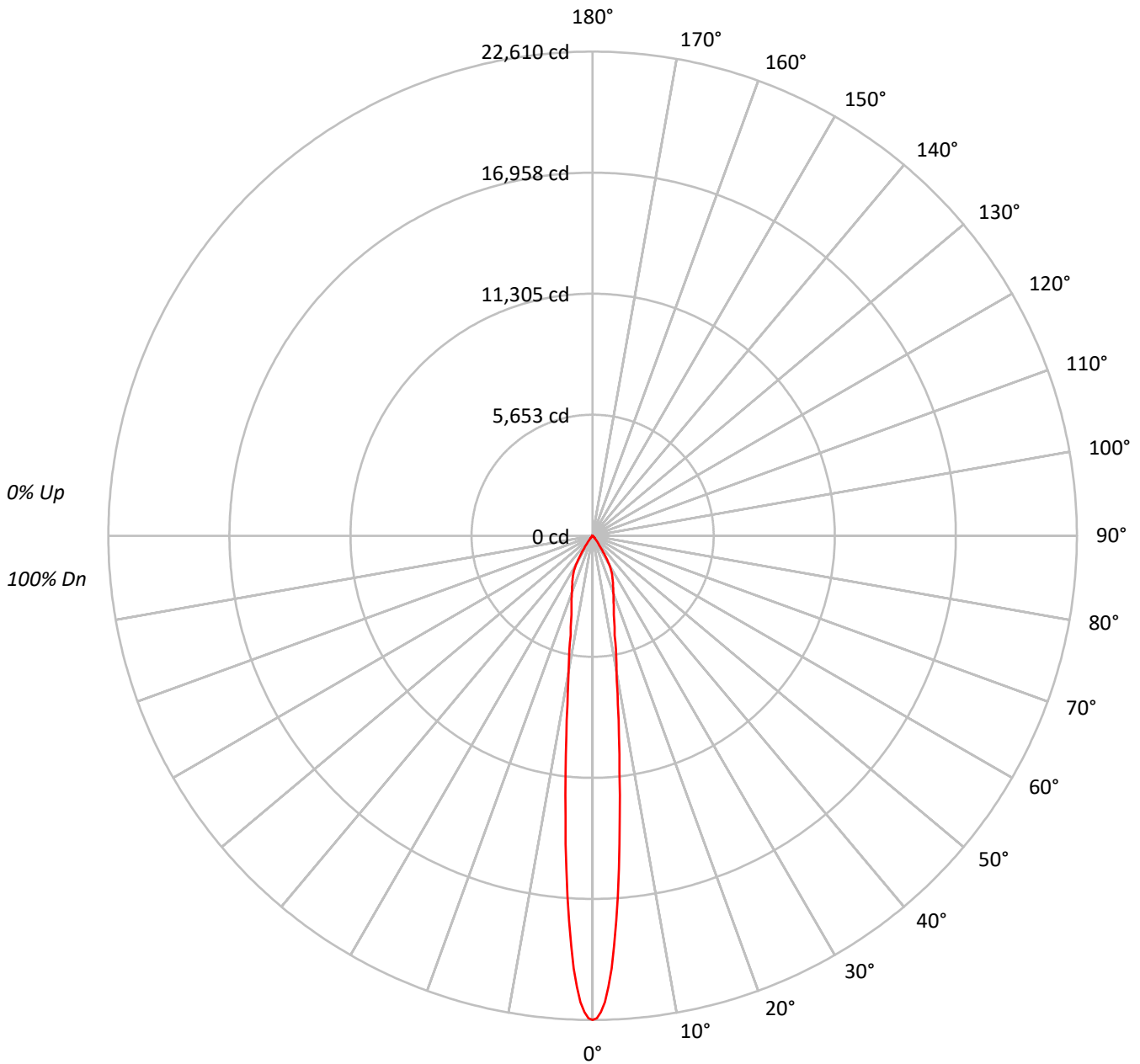
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91		
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87		
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83		
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80		
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76		
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73		
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71		
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68		
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	697197
5°	447200
10°	202016
15°	121889
20°	92884
25°	75010
30°	54966
35°	19902
40°	7431
45°	3375
50°	1079
55°	269
60°	154
65°	182
70°	0
75°	0
80°	444
85°	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1101.9	29.7
10°-20°	1119.2	30.2
20°-30°	1001.8	27.0
30°-40°	403.6	10.9
40°-50°	66.2	1.8
50°-60°	6.0	0.2
60°-70°	2.2	0.1
70°-80°	1.7	0.0
80°-90°	2.4	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°	3222.9	87.0
0°-40°	3626.4	97.9
0°-60°	3698.7	99.9
0°-90°	3704.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22610	
5°	14447	###
15°	3818	1119
25°	2205	1002
35°	529	404
45°	77	66
55°	5	6
65°	2	2
75°	0	2
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22609.6
0.5°	22539.8
1°	22248.0
1.5°	21779.3
2°	21068.5
2.5°	20228.0
3°	19175.5
3.5°	18020.9
4°	16878.7
4.5°	15599.4
5°	14447.2
5.5°	13192.7
6°	12175.2
6.5°	11115.3
7°	10282.3
7.5°	9402.0
8°	8693.8
8.5°	7983.0
9°	7449.3
9.5°	6860.7
10°	6451.7
12.5°	4758.3
15°	3818.1
17.5°	3262.0
20°	2830.5
22.5°	2486.4
25°	2204.6
27.5°	1922.8
30°	1543.7
32.5°	992.6
35°	528.7
37.5°	291.8
40°	184.6
42.5°	122.2
45°	77.4
47.5°	47.4
50°	22.5
52.5°	7.5
55°	5.0
57.5°	2.5
60°	2.5
62.5°	2.5
65°	2.5



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	2.5
80°	2.5
82.5°	2.5
85°	2.5
87.5°	2.5
90°	0.0



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— 0°-180°







67.5°		2.5
70°		0.0



(END OF REPORT)