

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: P584510

Luminaire Tested: **HC840D010-HM82555827-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584510
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-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: 4594.1 lumens
Efficiency: N/A
Efficacy: 112.1 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

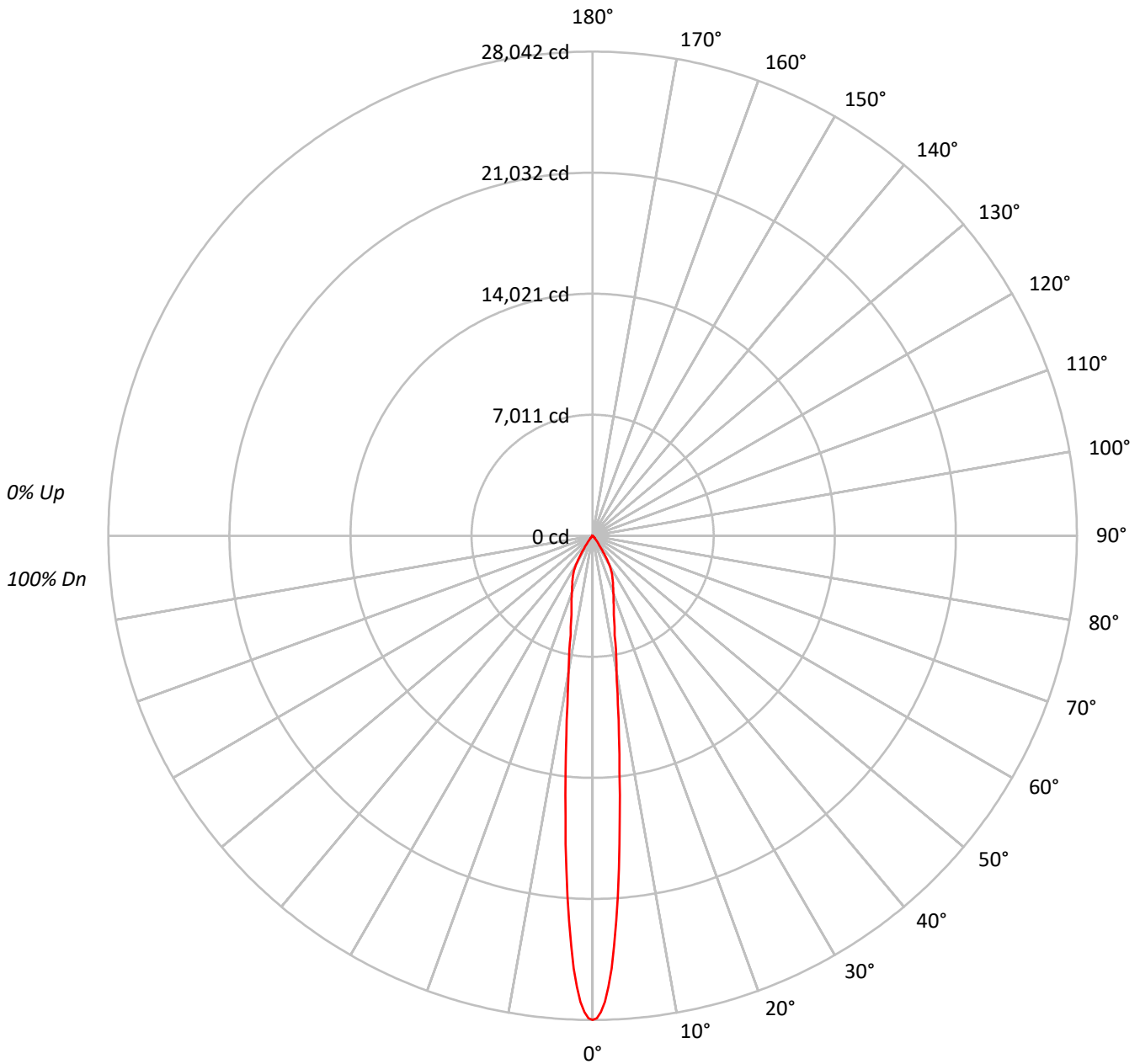
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	864697
5°	554639
10°	250549
15°	151177
20°	115201
25°	93032
30°	68173
35°	24683
40°	9210
45°	4182
50°	1334
55°	333
60°	191
65°	226
70°	0
75°	0
80°	550
85°	1097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1366.6	29.7
10°-20°	1388.1	30.2
20°-30°	1242.6	27.0
30°-40°	500.5	10.9
40°-50°	82.1	1.8
50°-60°	7.5	0.2
60°-70°	2.7	0.1
70°-80°	2.1	0.0
80°-90°	3.0	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°	3997.2	87.0
0°-40°	4497.7	97.9
0°-60°	4587.3	99.9
0°-90°	4595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4594.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	28042	
5°	17918	###
15°	4736	1388
25°	2734	1243
35°	656	501
45°	96	82
55°	6	7
65°	3	3
75°	0	2
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	28041.5
0.5°	27955.0
1°	27593.1
1.5°	27011.6
2°	26130.0
2.5°	25087.7
3°	23782.4
3.5°	22350.3
4°	20933.8
4.5°	19347.0
5°	17918.1
5.5°	16362.3
6°	15100.3
6.5°	13785.7
7°	12752.6
7.5°	11660.8
8°	10782.4
8.5°	9900.8
9°	9238.9
9.5°	8509.0
10°	8001.7
12.5°	5901.6
15°	4735.5
17.5°	4045.8
20°	3510.6
22.5°	3083.8
25°	2734.3
27.5°	2384.8
30°	1914.6
32.5°	1231.1
35°	655.7
37.5°	361.9
40°	228.8
42.5°	151.6
45°	95.9
47.5°	58.8
50°	27.8
52.5°	9.3
55°	6.2
57.5°	3.1
60°	3.1
62.5°	3.1
65°	3.1



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.1
80°	3.1
82.5°	3.1
85°	3.1
87.5°	3.1
90°	0.0



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— 0°-180°







67.5°		3.1
70°		0.0



(END OF REPORT)