

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: P584512

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555827-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4142.3 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

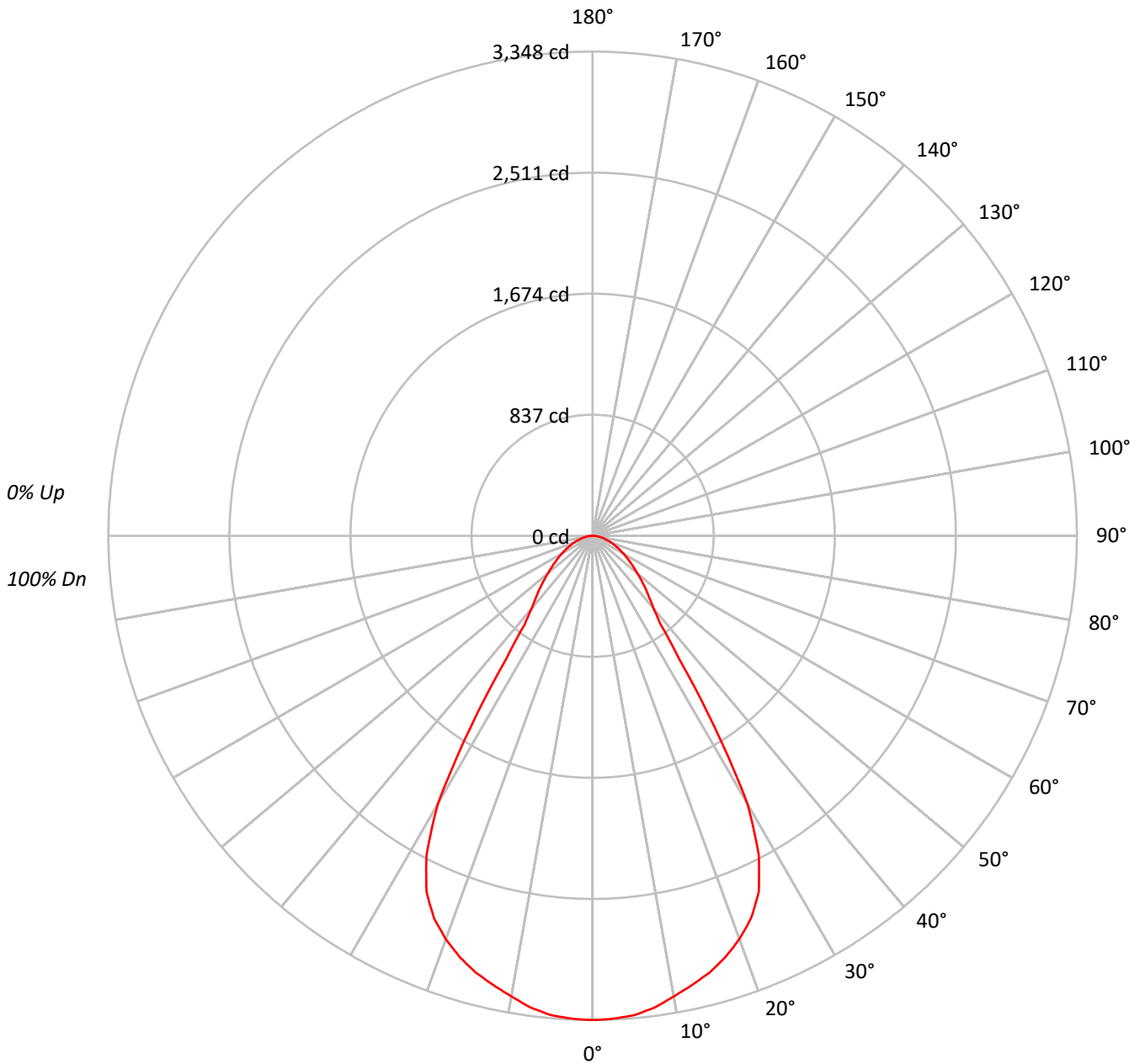
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103252
5°	102978
10°	101260
15°	99779
20°	97386
25°	92447
30°	76252
35°	39259
40°	26286
45°	22537
50°	19448
55°	16972
60°	15073
65°	13542
70°	12271
75°	11056
80°	9891
85°	9836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	7.6
10°-20°	879.4	21.2
20°-30°	1218.4	29.4
30°-40°	731.8	17.7
40°-50°	400.6	9.7
50°-60°	284.6	6.9
60°-70°	184.7	4.5
70°-80°	98.7	2.4
80°-90°	29.5	0.7
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°	2412.3	58.2
0°-40°	3144.2	75.9
0°-60°	3829.4	92.4
0°-90°	4142.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4142.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3348	
5°	3327	315
15°	3126	879
25°	2717	1218
35°	1043	732
45°	517	401
55°	316	285
65°	186	185
75°	93	99
85°	28	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3348.4
2.5°	3342.2
5°	3326.8
7.5°	3289.6
10°	3233.9
12.5°	3181.3
15°	3125.5
17.5°	3054.4
20°	2967.7
22.5°	2862.5
25°	2717.1
27.5°	2488.1
30°	2141.5
32.5°	1569.0
35°	1042.9
37.5°	770.5
40°	653.0
42.5°	578.7
45°	516.8
47.5°	458.0
50°	405.4
52.5°	355.9
55°	315.7
57.5°	278.5
60°	244.4
62.5°	213.5
65°	185.6
67.5°	157.8
70°	136.1
72.5°	111.4
75°	92.8
77.5°	74.3
80°	55.7
82.5°	40.2
85°	27.8
87.5°	12.4
90°	0.0



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— 0°-180°







(END OF REPORT)