

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: P584869

Luminaire Tested: **HC850D010-HM82555930-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584869
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: HC850D010-HM82555930-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4459.4 lumens
Efficiency: N/A
Efficacy: 92.9 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

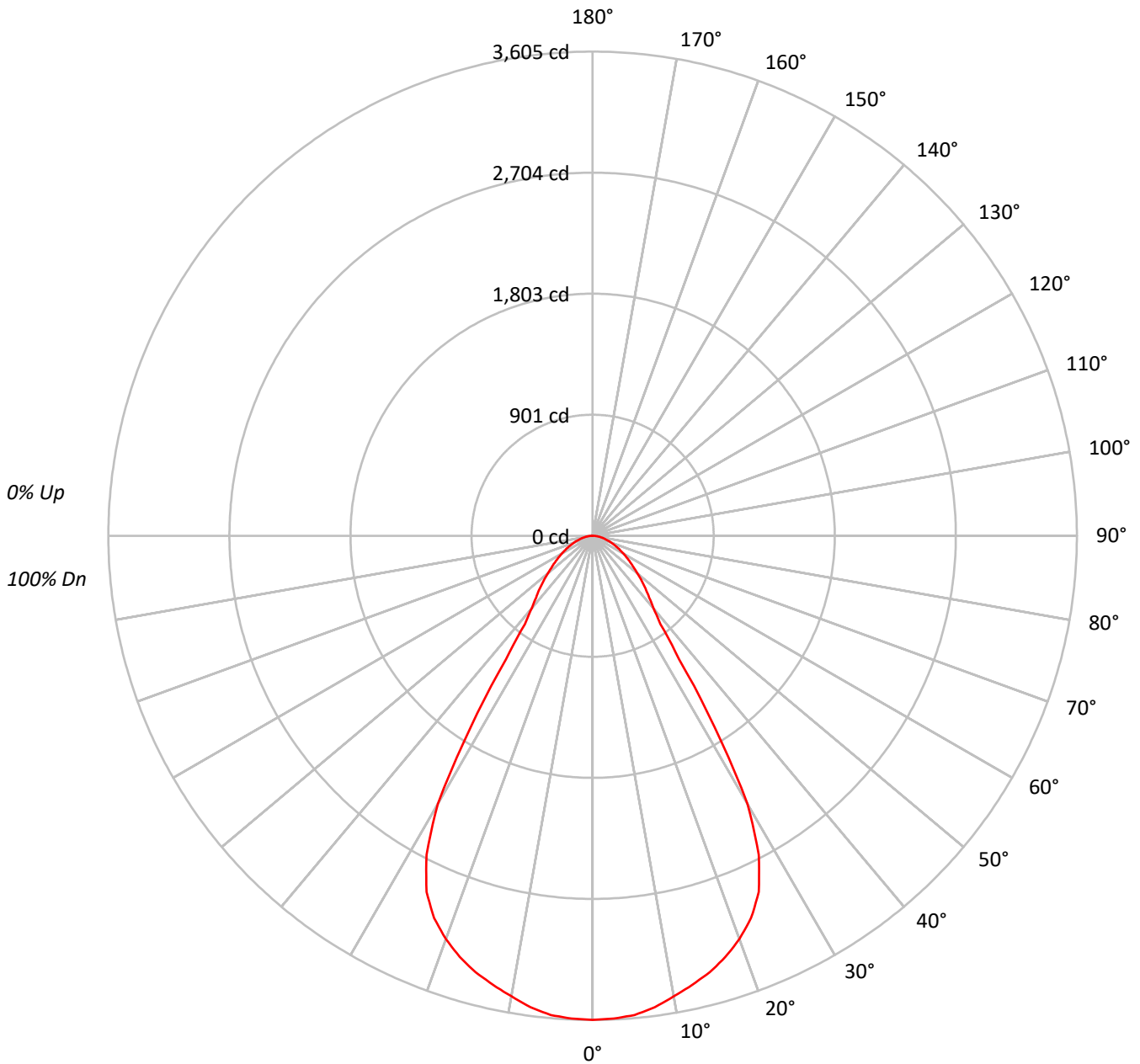
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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°	111156
5°	110862
10°	109013
15°	107418
20°	104845
25°	99524
30°	82091
35°	42263
40°	28295
45°	24260
50°	20935
55°	18268
60°	16226
65°	14586
70°	13217
75°	11902
80°	10655
85°	10579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	7.6
10°-20°	946.7	21.2
20°-30°	1311.7	29.4
30°-40°	787.9	17.7
40°-50°	431.3	9.7
50°-60°	306.4	6.9
60°-70°	198.9	4.5
70°-80°	106.3	2.4
80°-90°	31.7	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°	2597.0	58.2
0°-40°	3384.9	75.9
0°-60°	4122.5	92.4
0°-90°	4459.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3605	
5°	3582	339
15°	3365	947
25°	2925	1312
35°	1123	788
45°	556	431
55°	340	306
65°	200	199
75°	100	106
85°	30	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3604.7
2.5°	3598.1
5°	3581.5
7.5°	3541.5
10°	3481.5
12.5°	3424.8
15°	3364.8
17.5°	3288.3
20°	3195.0
22.5°	3081.7
25°	2925.1
27.5°	2678.5
30°	2305.5
32.5°	1689.1
35°	1122.7
37.5°	829.5
40°	702.9
42.5°	623.0
45°	556.3
47.5°	493.1
50°	436.4
52.5°	383.1
55°	339.8
57.5°	299.8
60°	263.1
62.5°	229.8
65°	199.9
67.5°	169.9
70°	146.6
72.5°	119.9
75°	99.9
77.5°	80.0
80°	60.0
82.5°	43.3
85°	29.9
87.5°	13.3
90°	0.0



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— 0°-180°







(END OF REPORT)