

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: P584877

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5485.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

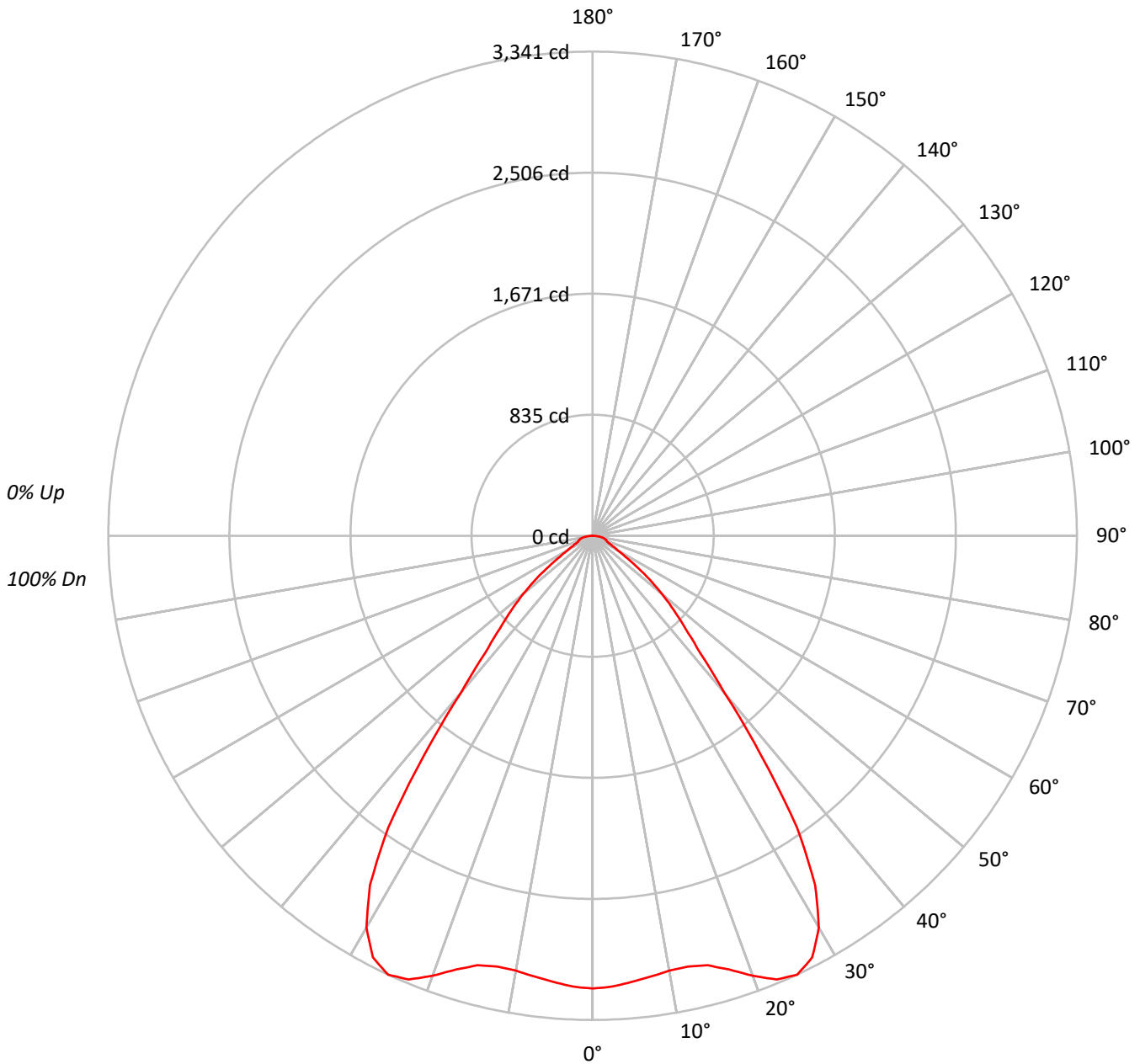
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96339
5°	95673
10°	95423
15°	97927
20°	106013
25°	113664
30°	111121
35°	92526
40°	56847
45°	39362
50°	30036
55°	19698
60°	12322
65°	9237
70°	9304
75°	10711
80°	11827
85°	10579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	5.4
10°-20°	880.6	16.1
20°-30°	1515.9	27.6
30°-40°	1468.7	26.8
40°-50°	723.4	13.2
50°-60°	341.4	6.2
60°-70°	134.5	2.5
70°-80°	92.8	1.7
80°-90°	34.4	0.6
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°	2690.2	49.0
0°-40°	4158.8	75.8
0°-60°	5223.6	95.2
0°-90°	5485.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5485.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3124	
5°	3091	294
15°	3068	881
25°	3341	1516
35°	2458	1469
45°	903	723
55°	366	341
65°	127	135
75°	90	93
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3124.2
2.5°	3114.1
5°	3090.8
7.5°	3067.5
10°	3047.5
12.5°	3044.2
15°	3067.5
17.5°	3137.5
20°	3230.6
22.5°	3314.0
25°	3340.7
27.5°	3280.7
30°	3120.8
32.5°	2857.6
35°	2457.9
37.5°	1908.4
40°	1412.2
42.5°	1095.8
45°	902.6
47.5°	759.4
50°	626.1
52.5°	493.0
55°	366.4
57.5°	266.4
60°	199.8
62.5°	156.5
65°	126.6
67.5°	109.9
70°	103.2
72.5°	96.6
75°	89.9
77.5°	80.0
80°	66.6
82.5°	49.9
85°	29.9
87.5°	13.3
90°	0.0



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— 0°-180°







(END OF REPORT)