

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: P593720

Luminaire Tested: **HC850D010-HM82555850-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555850-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5195.5 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

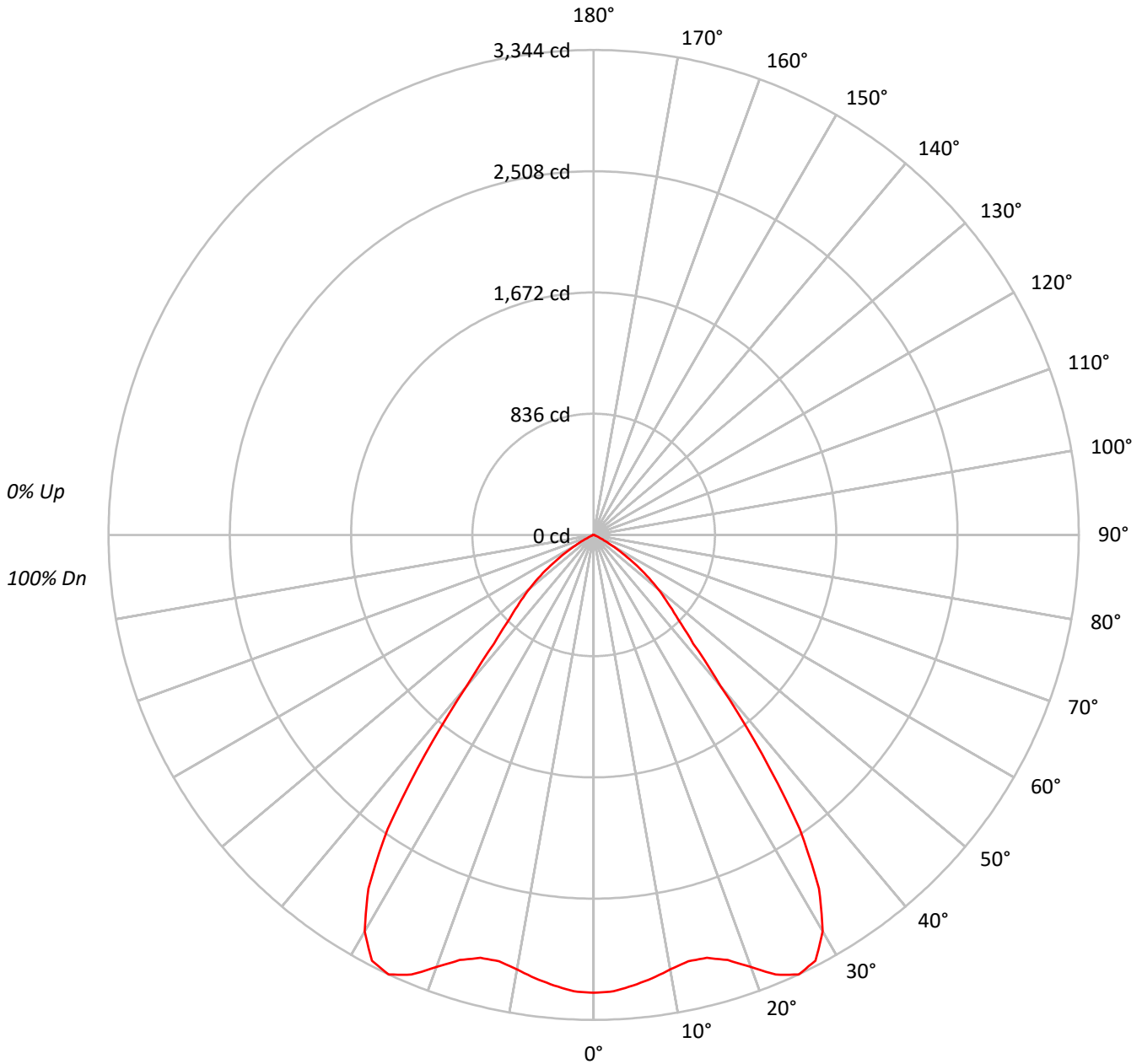
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97344
5°	96533
10°	95264
15°	96350
20°	104044
25°	113780
30°	112403
35°	93241
40°	54882
45°	35855
50°	27791
55°	18462
60°	8986
65°	2787
70°	938
75°	822
80°	622
85°	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	5.7
10°-20°	867.1	16.7
20°-30°	1516.0	29.2
30°-40°	1474.7	28.4
40°-50°	670.6	12.9
50°-60°	310.9	6.0
60°-70°	52.1	1.0
70°-80°	6.4	0.1
80°-90°	2.4	0.0
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°	2678.4	51.6
0°-40°	4153.0	79.9
0°-60°	5134.6	98.8
0°-90°	5195.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5195.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3157	
5°	3119	295
15°	3018	867
25°	3344	1516
35°	2477	1475
45°	822	671
55°	343	311
65°	38	52
75°	7	6
85°	4	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3156.8
2.5°	3149.9
5°	3118.6
7.5°	3084.0
10°	3042.4
12.5°	3011.2
15°	3018.1
17.5°	3073.5
20°	3170.6
22.5°	3281.7
25°	3344.1
27.5°	3309.5
30°	3156.8
32.5°	2889.7
35°	2476.9
37.5°	1907.9
40°	1363.4
42.5°	1016.4
45°	822.2
47.5°	693.8
50°	579.3
52.5°	461.4
55°	343.4
57.5°	235.9
60°	145.7
62.5°	79.7
65°	38.2
67.5°	17.4
70°	10.4
72.5°	6.9
75°	6.9
77.5°	3.5
80°	3.5
82.5°	3.5
85°	3.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)