

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: P593788

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593788
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: 5825.5 lumens
Efficiency: N/A
Efficacy: 121.4 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

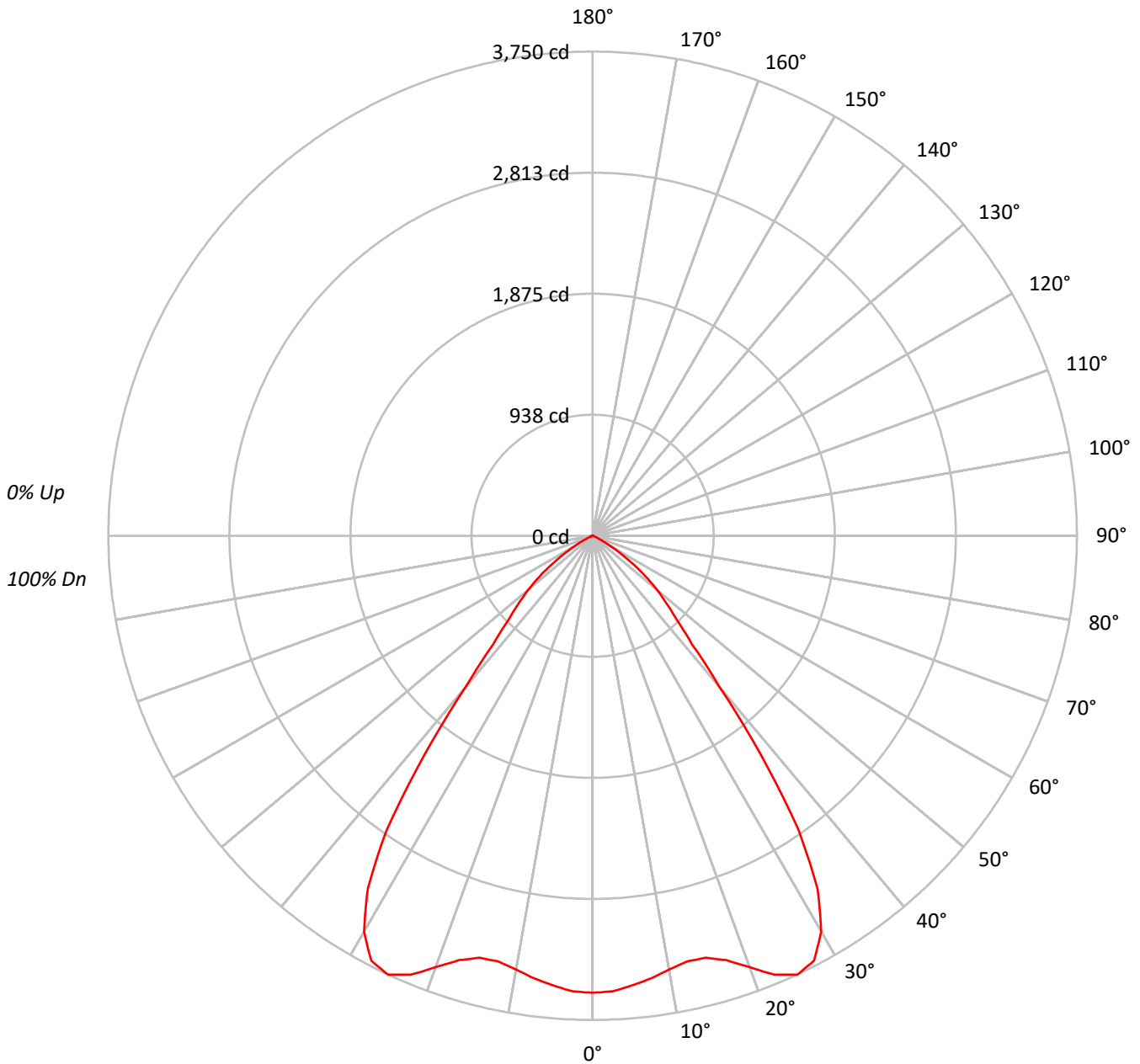
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	109148
5°	108240
10°	106815
15°	108031
20°	116665
25°	127580
30°	126034
35°	104545
40°	61536
45°	40203
50°	31163
55°	20704
60°	10071
65°	3123
70°	1055
75°	929
80°	693
85°	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	5.7
10°-20°	972.2	16.7
20°-30°	1699.8	29.2
30°-40°	1653.5	28.4
40°-50°	752.0	12.9
50°-60°	348.6	6.0
60°-70°	58.4	1.0
70°-80°	7.2	0.1
80°-90°	2.7	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°	3003.2	51.6
0°-40°	4656.6	79.9
0°-60°	5757.3	98.8
0°-90°	5825.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5825.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3540	
5°	3497	331
15°	3384	972
25°	3750	1700
35°	2777	1653
45°	922	752
55°	385	349
65°	43	58
75°	8	7
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3539.6
2.5°	3531.8
5°	3496.8
7.5°	3457.9
10°	3411.3
12.5°	3376.2
15°	3384.0
17.5°	3446.2
20°	3555.2
22.5°	3679.7
25°	3749.7
27.5°	3710.8
30°	3539.6
32.5°	3240.1
35°	2777.2
37.5°	2139.3
40°	1528.7
42.5°	1139.7
45°	921.9
47.5°	778.0
50°	649.6
52.5°	517.3
55°	385.1
57.5°	264.5
60°	163.3
62.5°	89.4
65°	42.8
67.5°	19.4
70°	11.7
72.5°	7.8
75°	7.8
77.5°	3.9
80°	3.9
82.5°	3.9
85°	3.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)