

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: P584809

Luminaire Tested: **HC850D010-HM82555830-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584809  
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-HM82555830-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5579.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

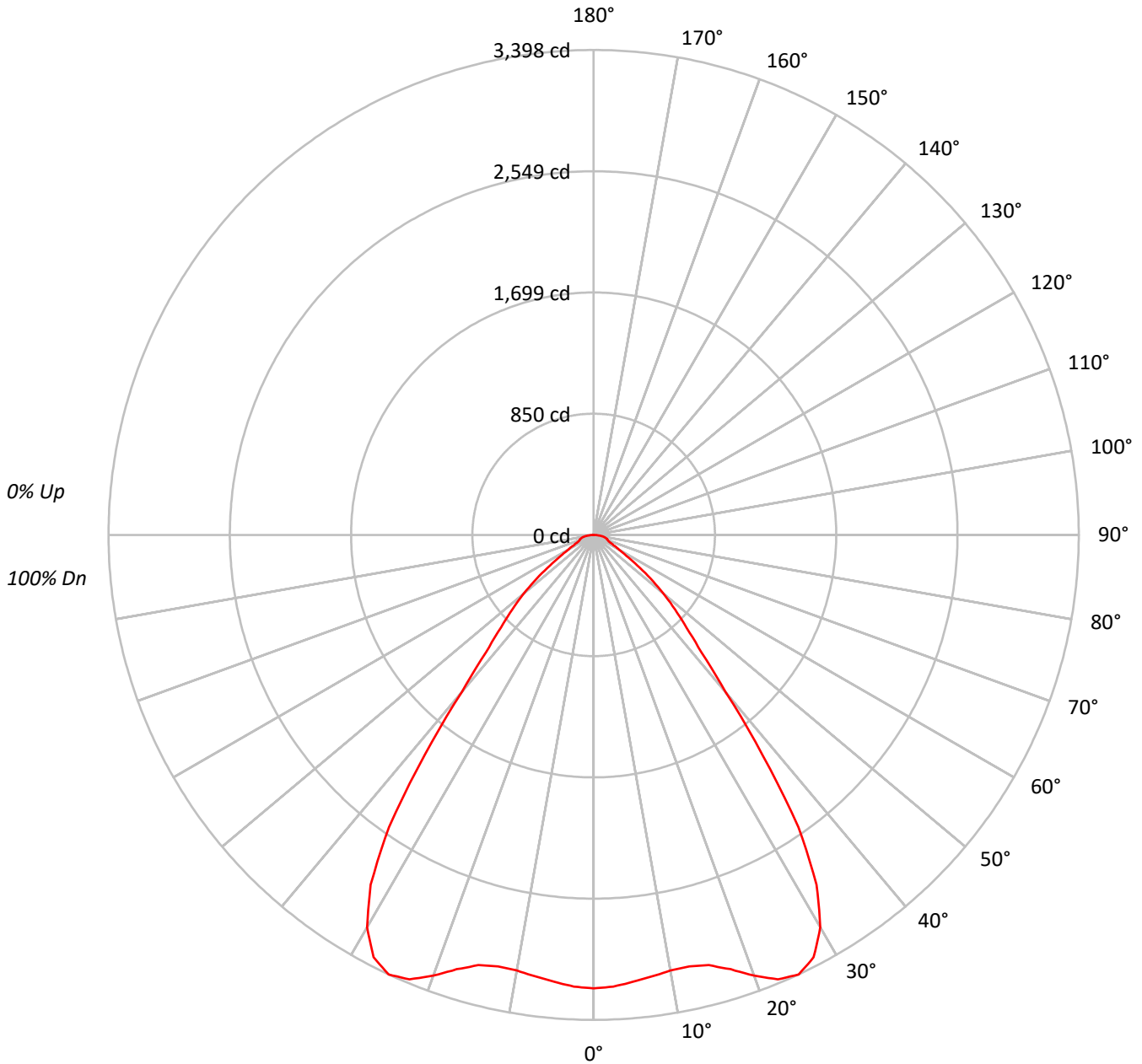
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	97976
5°	97307
10°	97052
15°	99597
20°	107825
25°	115600
30°	113016
35°	94107
40°	57813
45°	40033
50°	30554
55°	20032
60°	12538
65°	9391
70°	9467
75°	10890
80°	12040
85°	10791



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.7	5.4
10°-20°	895.6	16.1
20°-30°	1541.8	27.6
30°-40°	1493.7	26.8
40°-50°	735.7	13.2
50°-60°	347.2	6.2
60°-70°	136.8	2.5
70°-80°	94.3	1.7
80°-90°	35.1	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°	2736.0	49.0
0°-40°	4229.8	75.8
0°-60°	5312.7	95.2
0°-90°	5579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5579.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3177	
5°	3144	299
15°	3120	896
25°	3398	1542
35°	2500	1494
45°	918	736
55°	373	347
65°	129	137
75°	91	94
85°	30	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3177.3
2.5°	3167.3
5°	3143.6
7.5°	3119.8
10°	3099.5
12.5°	3096.1
15°	3119.8
17.5°	3190.9
20°	3285.8
22.5°	3370.5
25°	3397.6
27.5°	3336.6
30°	3174.0
32.5°	2906.4
35°	2499.9
37.5°	1941.0
40°	1436.2
42.5°	1114.4
45°	918.0
47.5°	772.4
50°	636.9
52.5°	501.4
55°	372.6
57.5°	271.0
60°	203.3
62.5°	159.2
65°	128.7
67.5°	111.8
70°	105.0
72.5°	98.2
75°	91.4
77.5°	81.2
80°	67.8
82.5°	50.9
85°	30.5
87.5°	13.6
90°	0.0



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— 0°-180°







(END OF REPORT)