

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: P584843

Luminaire Tested: **HC850D010-HM82555840-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584843  
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-HM82555840-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6404.8 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

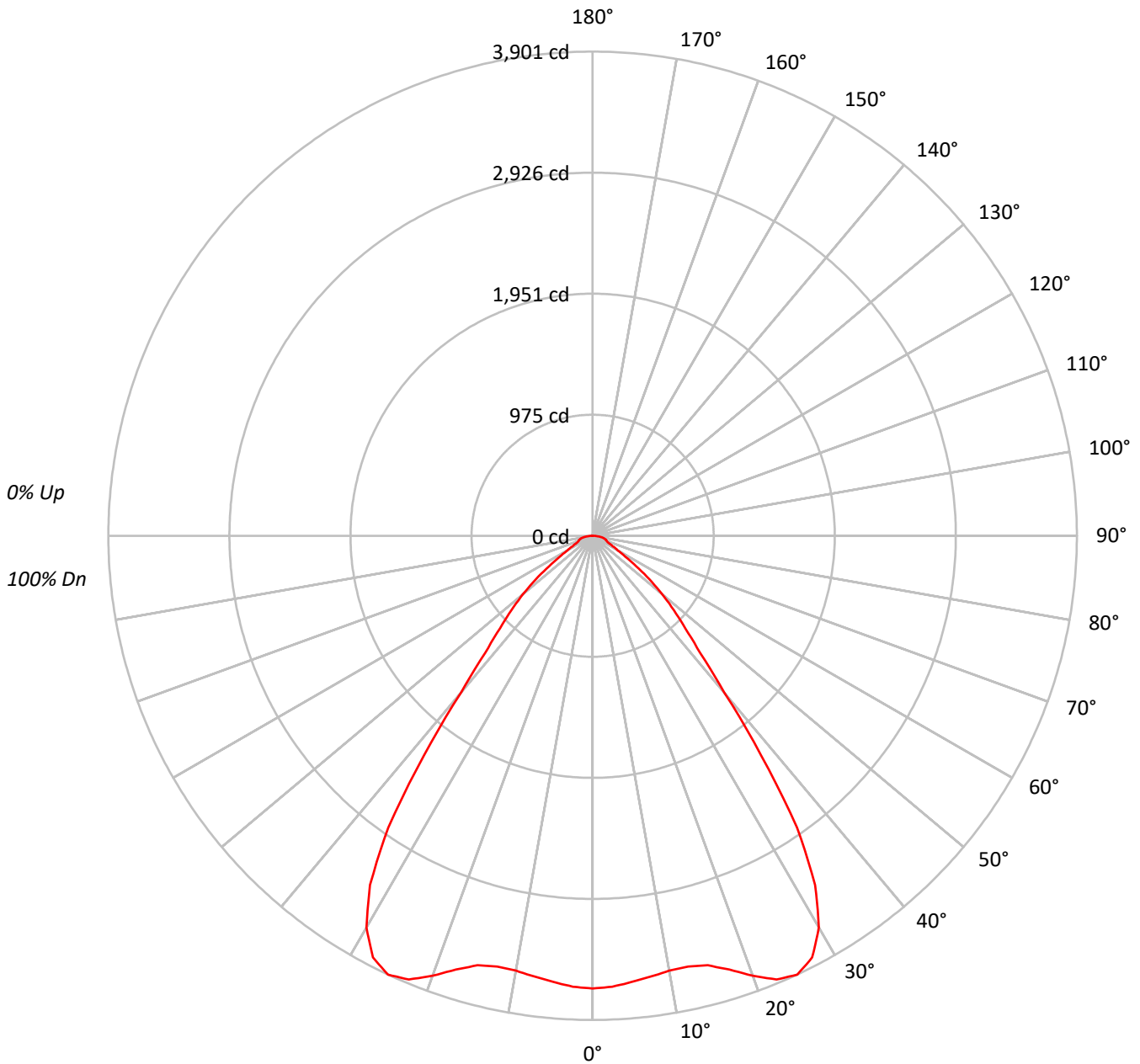
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	112488
5°	111710
10°	111421
15°	114343
20°	123786
25°	132714
30°	129747
35°	108039
40°	66375
45°	45960
50°	35073
55°	22994
60°	14388
65°	10784
70°	10864
75°	12510
80°	13798
85°	12383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.9	5.4
10°-20°	1028.2	16.1
20°-30°	1770.0	27.6
30°-40°	1714.9	26.8
40°-50°	844.7	13.2
50°-60°	398.6	6.2
60°-70°	157.1	2.5
70°-80°	108.3	1.7
80°-90°	40.2	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°	3141.1	49.0
0°-40°	4856.0	75.8
0°-60°	6099.2	95.2
0°-90°	6404.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6404.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3648	
5°	3609	343
15°	3582	1028
25°	3901	1770
35°	2870	1715
45°	1054	845
55°	428	399
65°	148	157
75°	105	108
85°	35	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3647.9
2.5°	3636.2
5°	3608.9
7.5°	3581.7
10°	3558.4
12.5°	3554.5
15°	3581.7
17.5°	3663.4
20°	3772.2
22.5°	3869.5
25°	3900.6
27.5°	3830.6
30°	3643.9
32.5°	3336.7
35°	2870.0
37.5°	2228.3
40°	1648.9
42.5°	1279.5
45°	1053.9
47.5°	886.7
50°	731.1
52.5°	575.6
55°	427.7
57.5°	311.1
60°	233.3
62.5°	182.8
65°	147.8
67.5°	128.4
70°	120.5
72.5°	112.8
75°	105.0
77.5°	93.3
80°	77.7
82.5°	58.3
85°	35.0
87.5°	15.5
90°	0.0



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— 0°-180°







(END OF REPORT)