

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: P584876

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC850D010-HM82555930-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5115.6 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

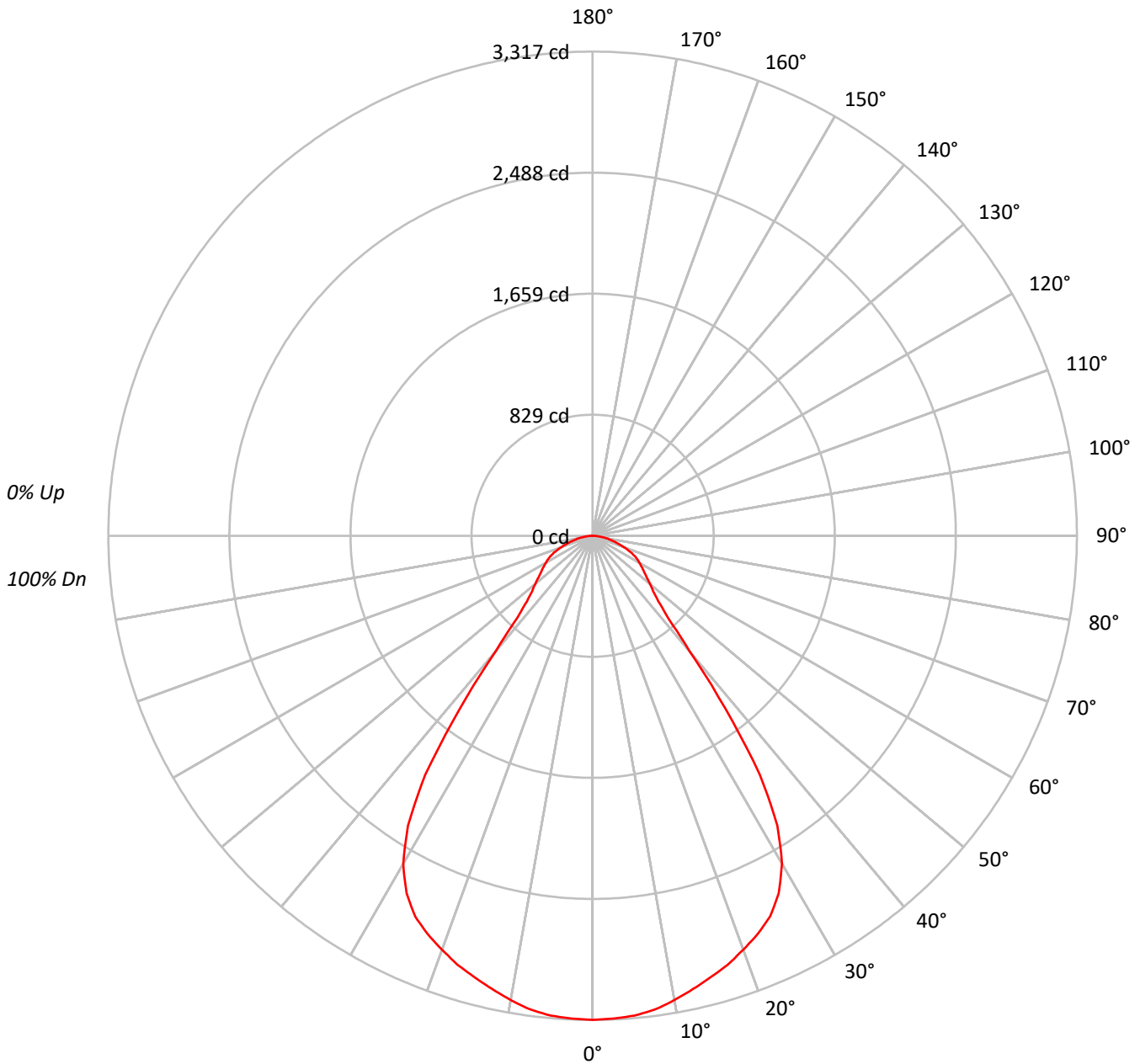
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	102275
5°	102149
10°	101141
15°	99929
20°	99004
25°	97891
30°	92364
35°	75209
40°	41554
45°	27740
50°	24600
55°	23096
60°	22794
65°	22597
70°	20412
75°	18241
80°	15964
85°	14152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.8	6.1
10°-20°	883.8	17.3
20°-30°	1313.3	25.7
30°-40°	1182.7	23.1
40°-50°	524.3	10.2
50°-60°	388.3	7.6
60°-70°	301.9	5.9
70°-80°	163.7	3.2
80°-90°	44.8	0.9
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°	2509.9	49.1
0°-40°	3692.5	72.2
0°-60°	4605.2	90.0
0°-90°	5115.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5115.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3317	
5°	3300	313
15°	3130	884
25°	2877	1313
35°	1998	1183
45°	636	524
55°	430	388
65°	310	302
75°	153	164
85°	40	45
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3316.7
2.5°	3310.0
5°	3300.0
7.5°	3273.3
10°	3230.1
12.5°	3180.1
15°	3130.2
17.5°	3080.2
20°	3017.0
22.5°	2953.7
25°	2877.1
27.5°	2760.6
30°	2594.0
32.5°	2354.2
35°	1997.9
37.5°	1491.9
40°	1032.3
42.5°	762.5
45°	636.1
47.5°	562.8
50°	512.8
52.5°	466.2
55°	429.6
57.5°	399.6
60°	369.6
62.5°	343.0
65°	309.7
67.5°	269.7
70°	226.4
72.5°	189.8
75°	153.1
77.5°	119.8
80°	89.9
82.5°	63.2
85°	40.0
87.5°	16.6
90°	0.0



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— 0°-180°







(END OF REPORT)