

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: P584893

Luminaire Tested: **HC850D010-HM82555935-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584893  
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-HM82555935-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5143.1 lumens  
Efficiency: N/A  
Efficacy: 107.1 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

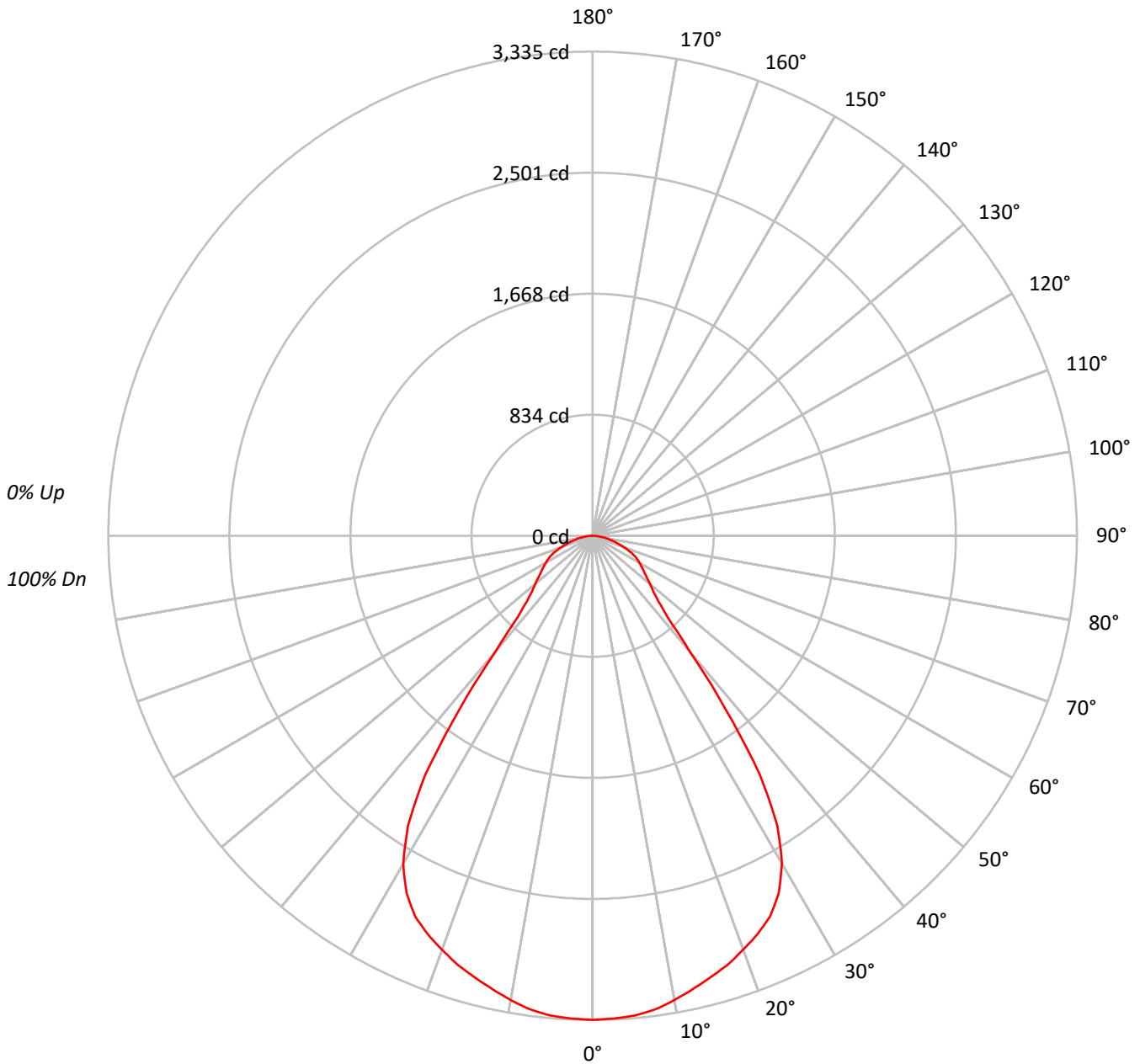
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584893

CATALOG NUMBER: HC850D010-HM82555935-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584893

CATALOG NUMBER: HC850D010-HM82555935-81WDW

**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°	102827
5°	102696
10°	101686
15°	100468
20°	99535
25°	98418
30°	92862
35°	75616
40°	41776
45°	27884
50°	24730
55°	23214
60°	22918
65°	22714
70°	20520
75°	18348
80°	16053
85°	14223



TEST NUMBER: P584893

CATALOG NUMBER: HC850D010-HM82555935-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.4	6.1
10°-20°	888.6	17.3
20°-30°	1320.3	25.7
30°-40°	1189.0	23.1
40°-50°	527.1	10.2
50°-60°	390.4	7.6
60°-70°	303.6	5.9
70°-80°	164.6	3.2
80°-90°	45.1	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°	2523.4	49.1
0°-40°	3712.4	72.2
0°-60°	4629.9	90.0
0°-90°	5143.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5143.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3335	
5°	3318	314
15°	3147	889
25°	2893	1320
35°	2009	1189
45°	639	527
55°	432	390
65°	311	304
75°	154	165
85°	40	45
90°	0	



TEST NUMBER: P584893

CATALOG NUMBER: HC850D010-HM82555935-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3334.6
2.5°	3327.8
5°	3317.7
7.5°	3291.0
10°	3247.5
12.5°	3197.2
15°	3147.1
17.5°	3096.8
20°	3033.2
22.5°	2969.6
25°	2892.6
27.5°	2775.4
30°	2608.0
32.5°	2367.0
35°	2008.7
37.5°	1499.8
40°	1037.8
42.5°	766.6
45°	639.4
47.5°	565.8
50°	515.5
52.5°	468.7
55°	431.8
57.5°	401.8
60°	371.6
62.5°	344.9
65°	311.3
67.5°	271.2
70°	227.6
72.5°	190.8
75°	154.0
77.5°	120.5
80°	90.4
82.5°	63.6
85°	40.2
87.5°	16.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)