

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: P584890

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584890  
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-HM82555935-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5016.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 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

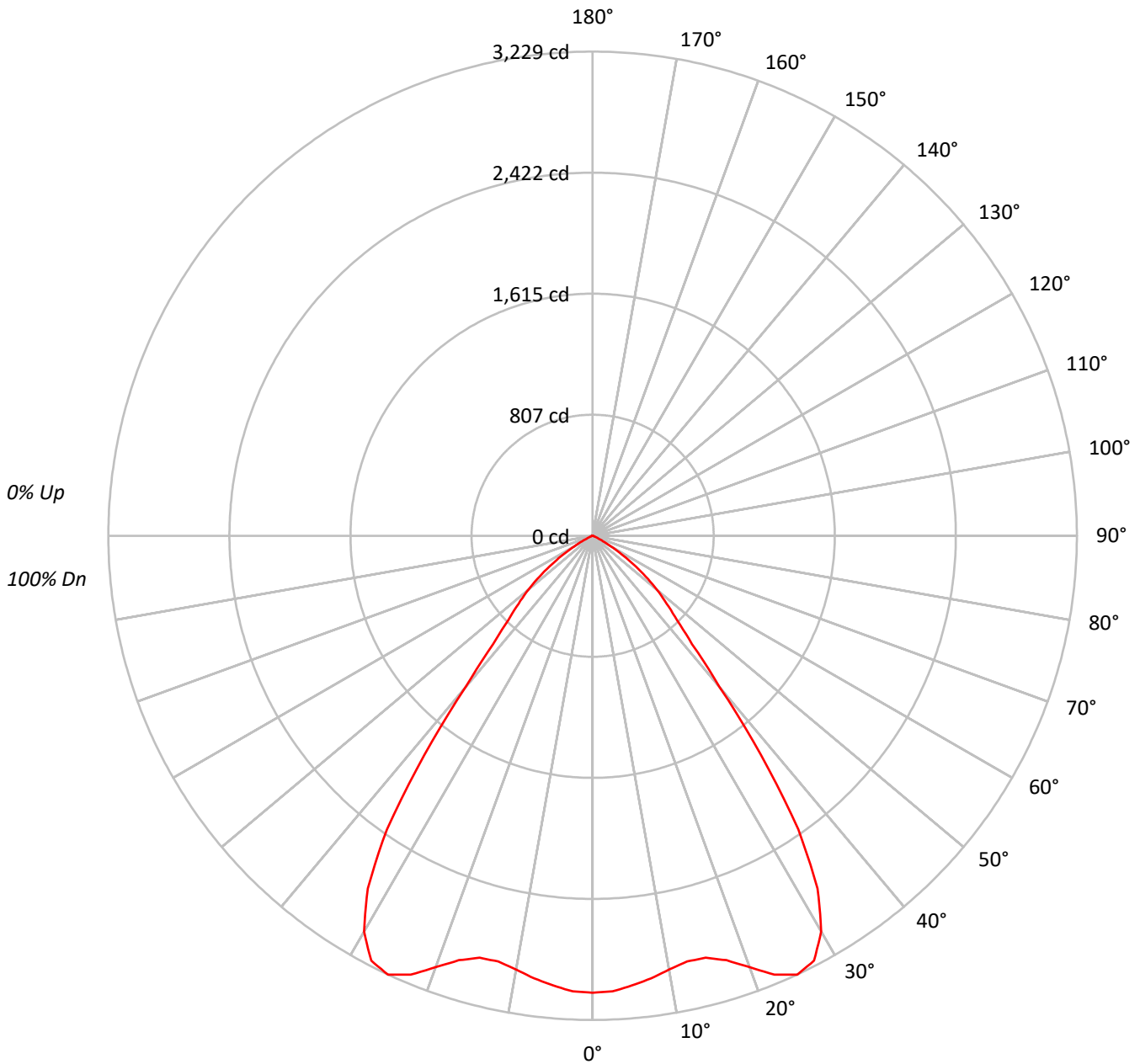
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584890

CATALOG NUMBER: HC850D010-HM82555935-81WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P584890

CATALOG NUMBER: HC850D010-HM82555935-81WDBB

**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°	93980
5°	93200
10°	91970
15°	93017
20°	100451
25°	109854
30°	108519
35°	90019
40°	52982
45°	34617
50°	26836
55°	17822
60°	8671
65°	2685
70°	911
75°	798
80°	604
85°	1203



TEST NUMBER: P584890

CATALOG NUMBER: HC850D010-HM82555935-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.1	5.7
10°-20°	837.1	16.7
20°-30°	1463.6	29.2
30°-40°	1423.7	28.4
40°-50°	647.5	12.9
50°-60°	300.2	6.0
60°-70°	50.3	1.0
70°-80°	6.2	0.1
80°-90°	2.3	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°	2585.8	51.6
0°-40°	4009.5	79.9
0°-60°	4957.2	98.8
0°-90°	5016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3048	
5°	3011	285
15°	2914	837
25°	3229	1464
35°	2391	1424
45°	794	647
55°	332	300
65°	37	50
75°	7	6
85°	3	2
90°	0	



TEST NUMBER: P584890

CATALOG NUMBER: HC850D010-HM82555935-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3047.7
2.5°	3041.0
5°	3010.9
7.5°	2977.4
10°	2937.2
12.5°	2907.1
15°	2913.7
17.5°	2967.4
20°	3061.1
22.5°	3168.3
25°	3228.7
27.5°	3195.1
30°	3047.7
32.5°	2789.8
35°	2391.3
37.5°	1842.0
40°	1316.2
42.5°	981.3
45°	793.8
47.5°	669.8
50°	559.4
52.5°	445.4
55°	331.5
57.5°	227.7
60°	140.6
62.5°	77.0
65°	36.8
67.5°	16.7
70°	10.1
72.5°	6.7
75°	6.7
77.5°	3.4
80°	3.4
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)