

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: P593686

Luminaire Tested: **HC835D010-HM82555850-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593686  
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: HC835D010-HM82555850-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4484.2 lumens  
Efficiency: N/A  
Efficacy: 133.1 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

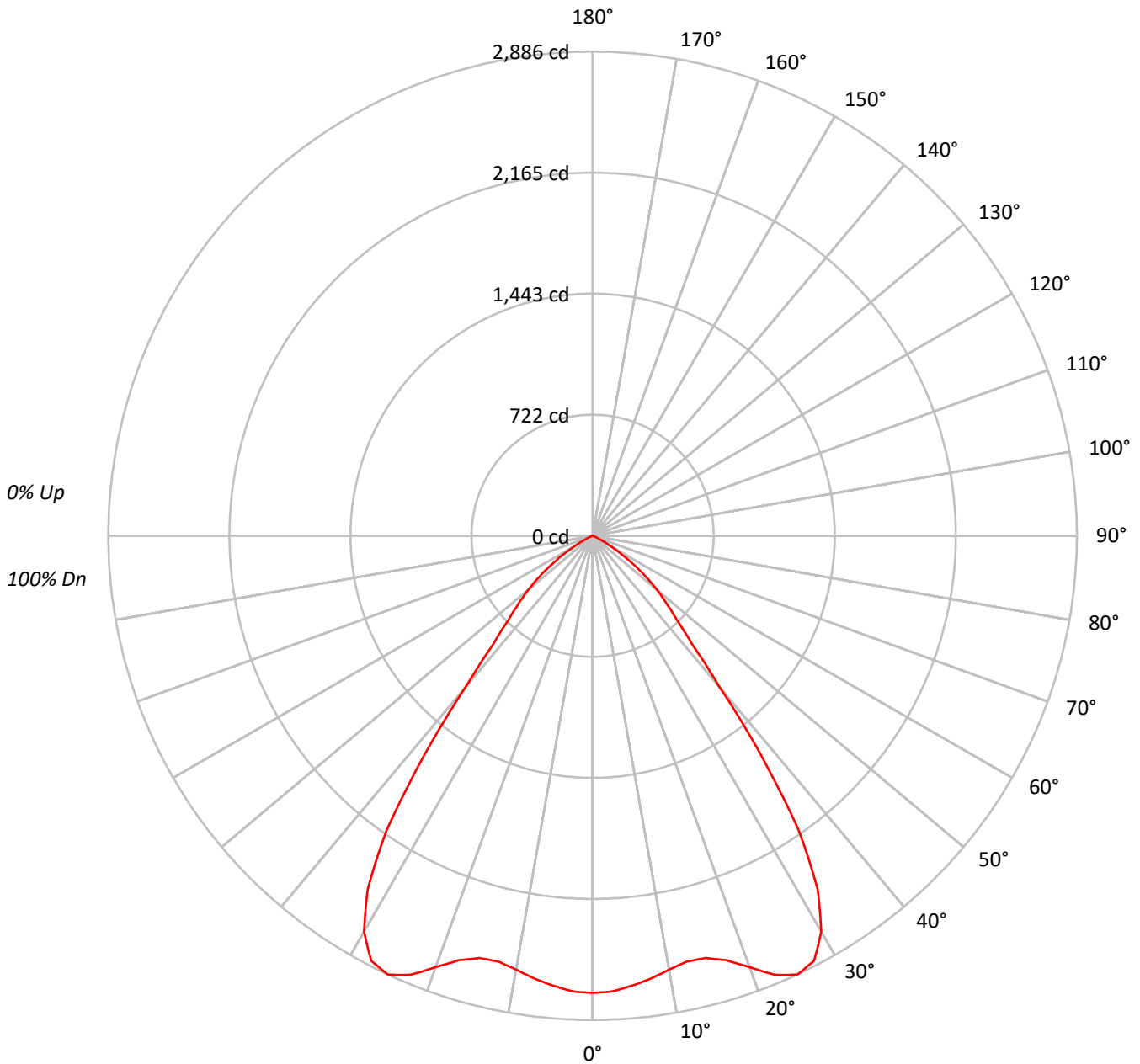
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593686

CATALOG NUMBER: HC835D010-HM82555850-81WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P593686

CATALOG NUMBER: HC835D010-HM82555850-81WDBB

**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°	84017
5°	83319
10°	82219
15°	83156
20°	89802
25°	98204
30°	97014
35°	80476
40°	47367
45°	30945
50°	23986
55°	15935
60°	7758
65°	2401
70°	811
75°	715
80°	533
85°	1061



TEST NUMBER: P593686

CATALOG NUMBER: HC835D010-HM82555850-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.9	5.7
10°-20°	748.3	16.7
20°-30°	1308.4	29.2
30°-40°	1272.8	28.4
40°-50°	578.8	12.9
50°-60°	268.4	6.0
60°-70°	45.0	1.0
70°-80°	5.5	0.1
80°-90°	2.0	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°	2311.7	51.6
0°-40°	3584.5	79.9
0°-60°	4431.6	98.8
0°-90°	4484.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4484.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2725	
5°	2692	255
15°	2605	748
25°	2886	1308
35°	2138	1273
45°	710	579
55°	296	268
65°	33	45
75°	6	6
85°	3	2
90°	0	



TEST NUMBER: P593686

CATALOG NUMBER: HC835D010-HM82555850-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2724.6
2.5°	2718.6
5°	2691.7
7.5°	2661.7
10°	2625.8
12.5°	2598.8
15°	2604.8
17.5°	2652.7
20°	2736.6
22.5°	2832.4
25°	2886.3
27.5°	2856.4
30°	2724.6
32.5°	2494.1
35°	2137.8
37.5°	1646.8
40°	1176.7
42.5°	877.3
45°	709.6
47.5°	598.8
50°	500.0
52.5°	398.2
55°	296.4
57.5°	203.5
60°	125.8
62.5°	68.9
65°	32.9
67.5°	15.0
70°	9.0
72.5°	6.0
75°	6.0
77.5°	3.0
80°	3.0
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)