

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: P584450

Luminaire Tested: **HC835D010-HM82555927-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555927-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3425.3 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

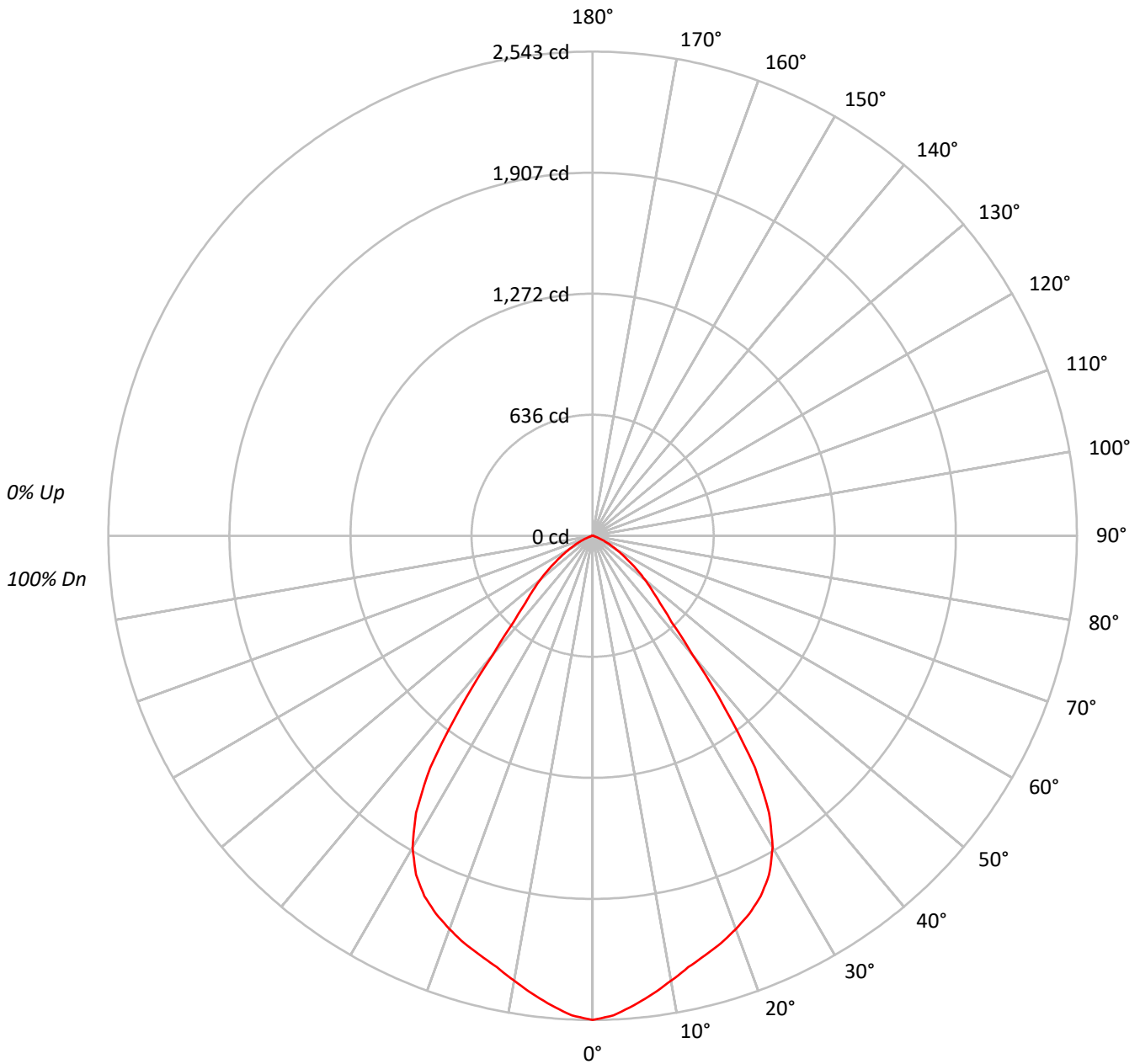
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584450

CATALOG NUMBER: HC835D010-HM82555927-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P584450

CATALOG NUMBER: HC835D010-HM82555927-81WDH

**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	91	103	98	94	90	95	91	88	92	89	86	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	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

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

	0°
0°	78417
5°	76652
10°	74300
15°	72797
20°	72141
25°	71066
30°	67318
35°	55932
40°	32936
45°	21787
50°	17150
55°	12618
60°	8764
65°	5341
70°	2335
75°	1025
80°	764
85°	0



TEST NUMBER: P584450

CATALOG NUMBER: HC835D010-HM82555927-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.2	6.8
10°-20°	644.7	18.8
20°-30°	955.1	27.9
30°-40°	882.6	25.8
40°-50°	407.0	11.9
50°-60°	214.0	6.2
60°-70°	75.6	2.2
70°-80°	11.9	0.3
80°-90°	1.2	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°	1833.0	53.5
0°-40°	2715.6	79.3
0°-60°	3336.6	97.4
0°-90°	3425.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2543	
5°	2476	233
15°	2280	645
25°	2089	955
35°	1486	883
45°	500	407
55°	235	214
65°	73	76
75°	9	12
85°	0	1
90°	0	



TEST NUMBER: P584450

CATALOG NUMBER: HC835D010-HM82555927-81WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2543.0
2.5°	2521.4
5°	2476.3
7.5°	2426.8
10°	2372.9
12.5°	2321.2
15°	2280.3
17.5°	2243.7
20°	2198.4
22.5°	2149.0
25°	2088.7
27.5°	2006.9
30°	1890.6
32.5°	1724.8
35°	1485.8
37.5°	1141.2
40°	818.2
42.5°	613.7
45°	499.6
47.5°	424.2
50°	357.5
52.5°	292.8
55°	234.7
57.5°	185.2
60°	142.1
62.5°	107.7
65°	73.2
67.5°	43.0
70°	25.9
72.5°	15.1
75°	8.6
77.5°	6.5
80°	4.3
82.5°	2.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)