

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: P593693

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555850-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5029.0 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

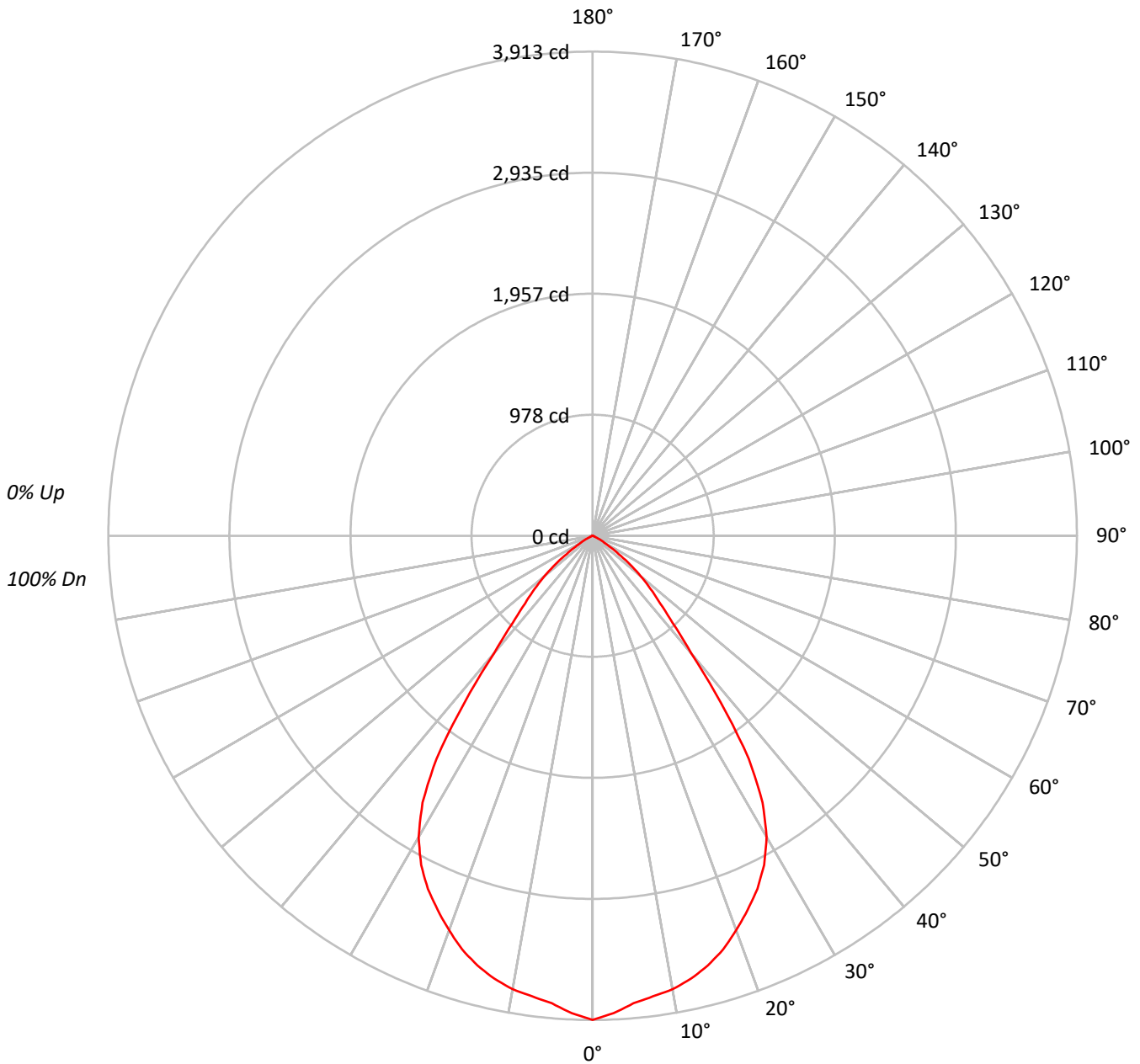
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593693

CATALOG NUMBER: HC835D010-HM82555850-81WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P593693

CATALOG NUMBER: HC835D010-HM82555850-81WDC

**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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59	59	59	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43

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

	0°
0°	120656
5°	117409
10°	116518
15°	114780
20°	111306
25°	107156
30°	100094
35°	82832
40°	50012
45°	33684
50°	24269
55°	13844
60°	6093
65°	2189
70°	811
75°	357
80°	0
85°	0



TEST NUMBER: P593693

CATALOG NUMBER: HC835D010-HM82555850-81WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.4	7.2
10°-20°	1010.4	20.1
20°-30°	1441.4	28.7
30°-40°	1312.6	26.1
40°-50°	619.2	12.3
50°-60°	243.5	4.8
60°-70°	38.8	0.8
70°-80°	2.7	0.1
80°-90°	0.0	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°	2812.2	55.9
0°-40°	4124.8	82.0
0°-60°	4987.4	99.2
0°-90°	5029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5029.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3913	
5°	3793	360
15°	3595	1010
25°	3149	1441
35°	2200	1313
45°	772	619
55°	258	243
65°	30	39
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P593693

CATALOG NUMBER: HC835D010-HM82555850-81WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3912.8
2.5°	3861.9
5°	3793.0
7.5°	3754.1
10°	3721.2
12.5°	3667.3
15°	3595.4
17.5°	3505.6
20°	3391.9
22.5°	3272.1
25°	3149.4
27.5°	2999.7
30°	2811.1
32.5°	2556.7
35°	2200.4
37.5°	1700.4
40°	1242.4
42.5°	955.0
45°	772.4
47.5°	634.7
50°	505.9
52.5°	380.2
55°	257.5
57.5°	161.6
60°	98.8
62.5°	59.9
65°	30.0
67.5°	15.0
70°	9.0
72.5°	3.0
75°	3.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)