

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: P584373

Luminaire Tested: **HC835D010-HM82555827-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555827-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3954.4 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

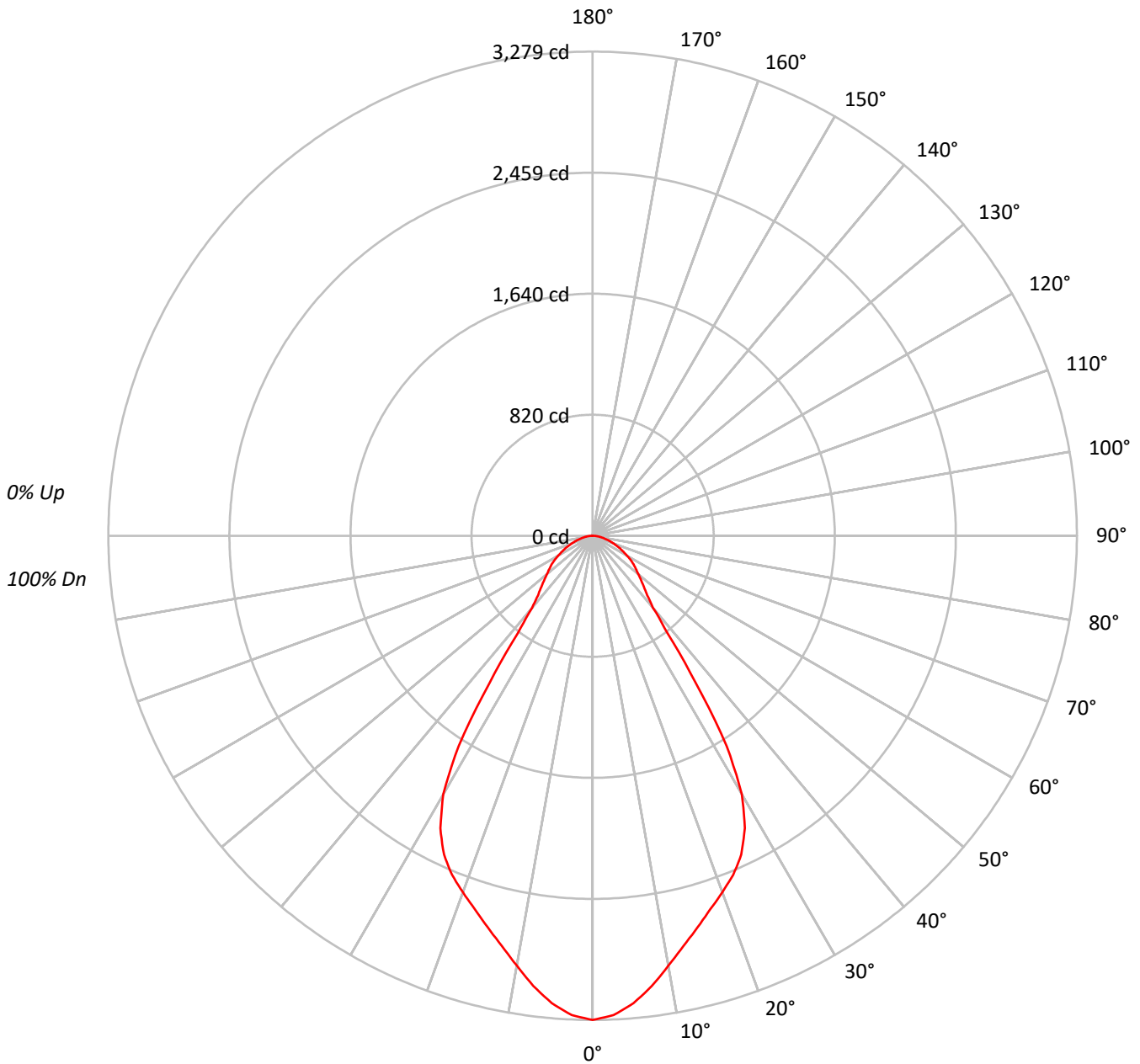
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584373

CATALOG NUMBER: HC835D010-HM82555827-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584373

CATALOG NUMBER: HC835D010-HM82555827-81MDW

**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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°
0°	101112
5°	98360
10°	92555
15°	87632
20°	84296
25°	81042
30°	71975
35°	45836
40°	25581
45°	21425
50°	19343
55°	18236
60°	16633
65°	15002
70°	13244
75°	11771
80°	10424
85°	9447



TEST NUMBER: P584373

CATALOG NUMBER: HC835D010-HM82555827-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.2	7.5
10°-20°	774.1	19.6
20°-30°	1080.0	27.3
30°-40°	777.1	19.7
40°-50°	385.1	9.7
50°-60°	301.3	7.6
60°-70°	204.0	5.2
70°-80°	105.9	2.7
80°-90°	30.5	0.8
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°	2150.4	54.4
0°-40°	2927.5	74.0
0°-60°	3614.0	91.4
0°-90°	3954.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3954.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3279	
5°	3178	296
15°	2745	774
25°	2382	1080
35°	1218	777
45°	491	385
55°	339	301
65°	206	204
75°	99	106
85°	27	31
90°	0	



TEST NUMBER: P584373

CATALOG NUMBER: HC835D010-HM82555827-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3279.0
2.5°	3249.7
5°	3177.6
7.5°	3076.1
10°	2955.9
12.5°	2843.8
15°	2745.0
17.5°	2651.5
20°	2568.8
22.5°	2486.0
25°	2381.9
27.5°	2232.4
30°	2021.4
32.5°	1690.3
35°	1217.6
37.5°	830.5
40°	635.5
42.5°	547.4
45°	491.3
47.5°	443.3
50°	403.2
52.5°	368.5
55°	339.2
57.5°	304.4
60°	269.7
62.5°	234.9
65°	205.6
67.5°	176.2
70°	146.9
72.5°	122.8
75°	98.8
77.5°	77.4
80°	58.7
82.5°	42.8
85°	26.7
87.5°	13.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)