

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: P584443

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555927-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2915.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

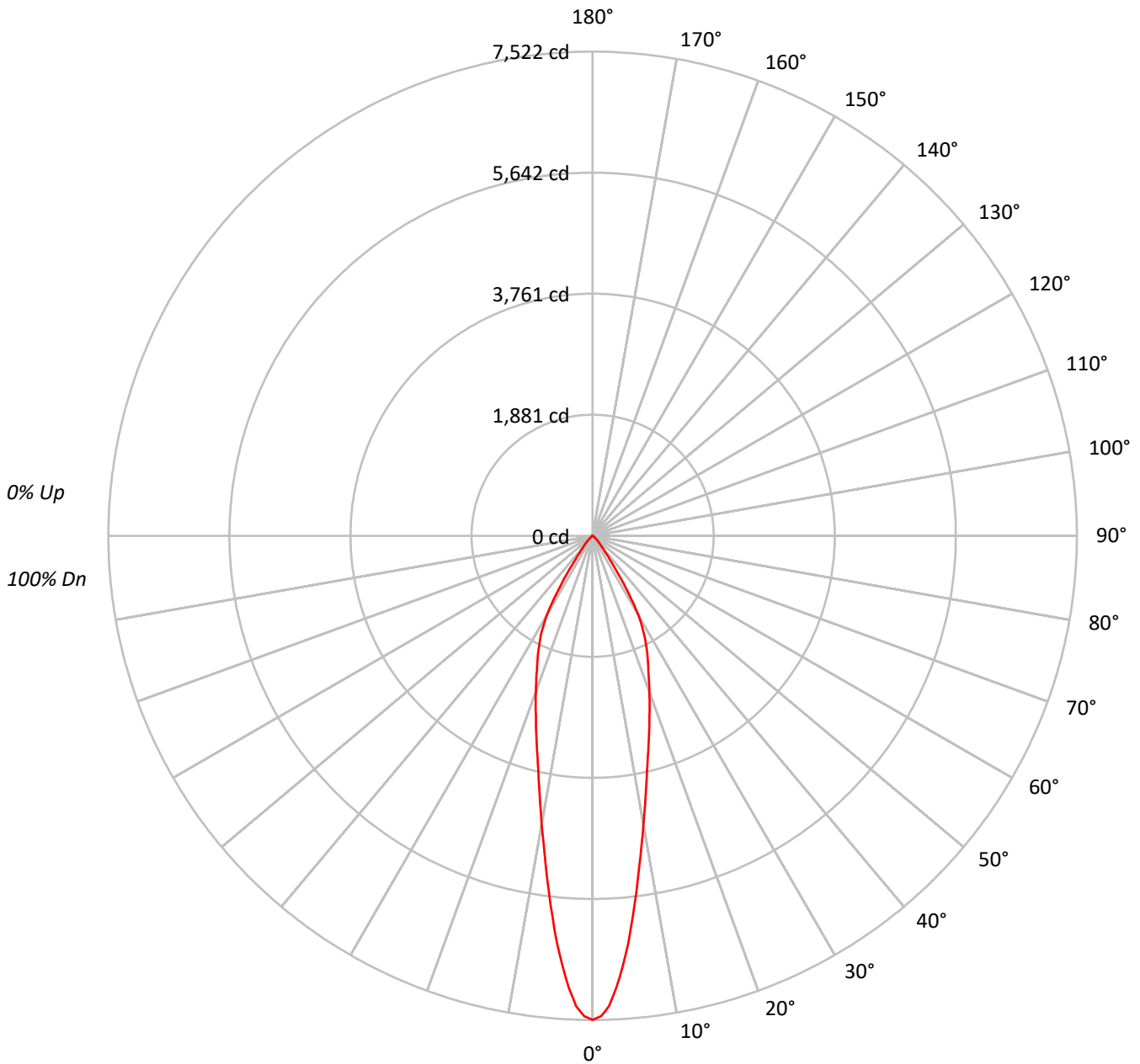
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584443

CATALOG NUMBER: HC835D010-HM82555927-81NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P584443

CATALOG NUMBER: HC835D010-HM82555927-81NDH

**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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

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

	0°
0°	231948
5°	196506
10°	142576
15°	107070
20°	84480
25°	68143
30°	50497
35°	20456
40°	8626
45°	4627
50°	2072
55°	1048
60°	666
65°	474
70°	388
75°	262
80°	391
85°	778



TEST NUMBER: P584443

CATALOG NUMBER: HC835D010-HM82555927-81NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.1	18.7
10°-20°	942.0	32.3
20°-30°	910.8	31.2
30°-40°	400.0	13.7
40°-50°	86.4	3.0
50°-60°	19.4	0.7
60°-70°	6.6	0.2
70°-80°	2.6	0.1
80°-90°	2.1	0.1
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°	2397.8	82.3
0°-40°	2797.8	96.0
0°-60°	2903.7	99.6
0°-90°	2915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7522	
5°	6348	545
15°	3354	942
25°	2003	911
35°	543	400
45°	106	86
55°	20	19
65°	6	7
75°	2	3
85°	2	2
90°	0	



TEST NUMBER: P584443

CATALOG NUMBER: HC835D010-HM82555927-81NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7521.9
1°	7465.6
2°	7311.9
3°	7034.7
4°	6703.4
5°	6348.3
6°	5960.8
7°	5571.1
8°	5205.1
9°	4865.2
10°	4553.4
11°	4258.9
12°	3994.7
13°	3754.4
14°	3542.2
15°	3353.9
17.5°	2931.6
20°	2574.4
22.5°	2260.5
25°	2002.8
27.5°	1740.8
30°	1418.2
32.5°	963.6
35°	543.4
37.5°	320.5
40°	214.3
42.5°	151.5
45°	106.1
47.5°	69.2
50°	43.2
52.5°	26.0
55°	19.5
57.5°	15.2
60°	10.8
62.5°	8.6
65°	6.5
67.5°	4.3
70°	4.3
72.5°	2.2
75°	2.2
77.5°	2.2
80°	2.2
82.5°	2.2



TEST NUMBER: P584443

CATALOG NUMBER: HC835D010-HM82555927-81NDH

CANDELA DISTRIBUTION (continued):

0°  
90° | 0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







85°	2.2
87.5°	2.2



(END OF REPORT)