

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: P584391

Luminaire Tested: **HC835D010-HM82555830-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555830-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3872.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

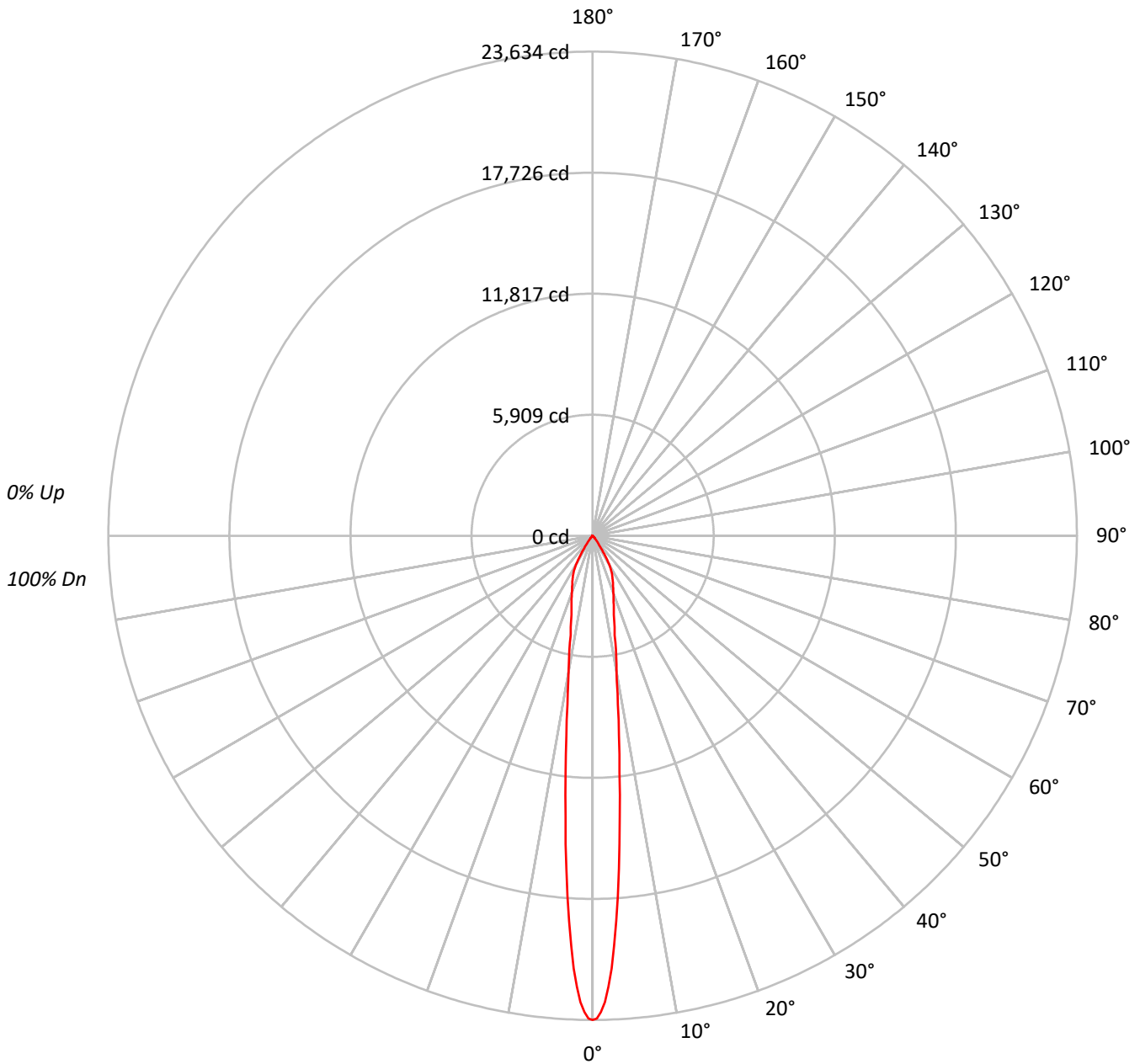
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584391

CATALOG NUMBER: HC835D010-HM82555830-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P584391

CATALOG NUMBER: HC835D010-HM82555830-81NDC

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
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	728782
5°	467456
10°	211168
15°	127412
20°	97094
25°	78409
30°	57459
35°	20802
40°	7765
45°	3528
50°	1127
55°	285
60°	160
65°	190
70°	0
75°	0
80°	462
85°	920



TEST NUMBER: P584391

CATALOG NUMBER: HC835D010-HM82555830-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1151.8	29.7
10°-20°	1169.9	30.2
20°-30°	1047.2	27.0
30°-40°	421.8	10.9
40°-50°	69.2	1.8
50°-60°	6.3	0.2
60°-70°	2.2	0.1
70°-80°	1.7	0.0
80°-90°	2.5	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°	3368.9	87.0
0°-40°	3790.7	97.9
0°-60°	3866.2	99.9
0°-90°	3872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3872.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23634	
5°	15102	###
15°	3991	1170
25°	2304	1047
35°	553	422
45°	81	69
55°	5	6
65°	3	2
75°	0	2
85°	3	2
90°	0	



TEST NUMBER: P584391

CATALOG NUMBER: HC835D010-HM82555830-81NDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	23633.9
0.5°	23560.9
1°	23255.9
1.5°	22765.8
2°	22022.8
2.5°	21144.3
3°	20044.2
3.5°	18837.2
4°	17643.3
4.5°	16306.0
5°	15101.6
5.5°	13790.4
6°	12726.7
6.5°	11618.8
7°	10748.1
7.5°	9827.9
8°	9087.5
8.5°	8344.5
9°	7786.8
9.5°	7171.5
10°	6744.0
12.5°	4973.9
15°	3991.1
17.5°	3409.7
20°	2958.8
22.5°	2599.1
25°	2304.5
27.5°	2009.9
30°	1613.7
32.5°	1037.6
35°	552.6
37.5°	305.0
40°	192.9
42.5°	127.7
45°	80.9
47.5°	49.5
50°	23.5
52.5°	7.8
55°	5.3
57.5°	2.6
60°	2.6
62.5°	2.6
65°	2.6



TEST NUMBER: P584391

CATALOG NUMBER: HC835D010-HM82555830-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	2.6
80°	2.6
82.5°	2.6
85°	2.6
87.5°	2.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







67.5°		2.6
70°		0.0



(END OF REPORT)