

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: P584407

Luminaire Tested: **HC835D010-HM82555835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584407
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-HM82555835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4093.3 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

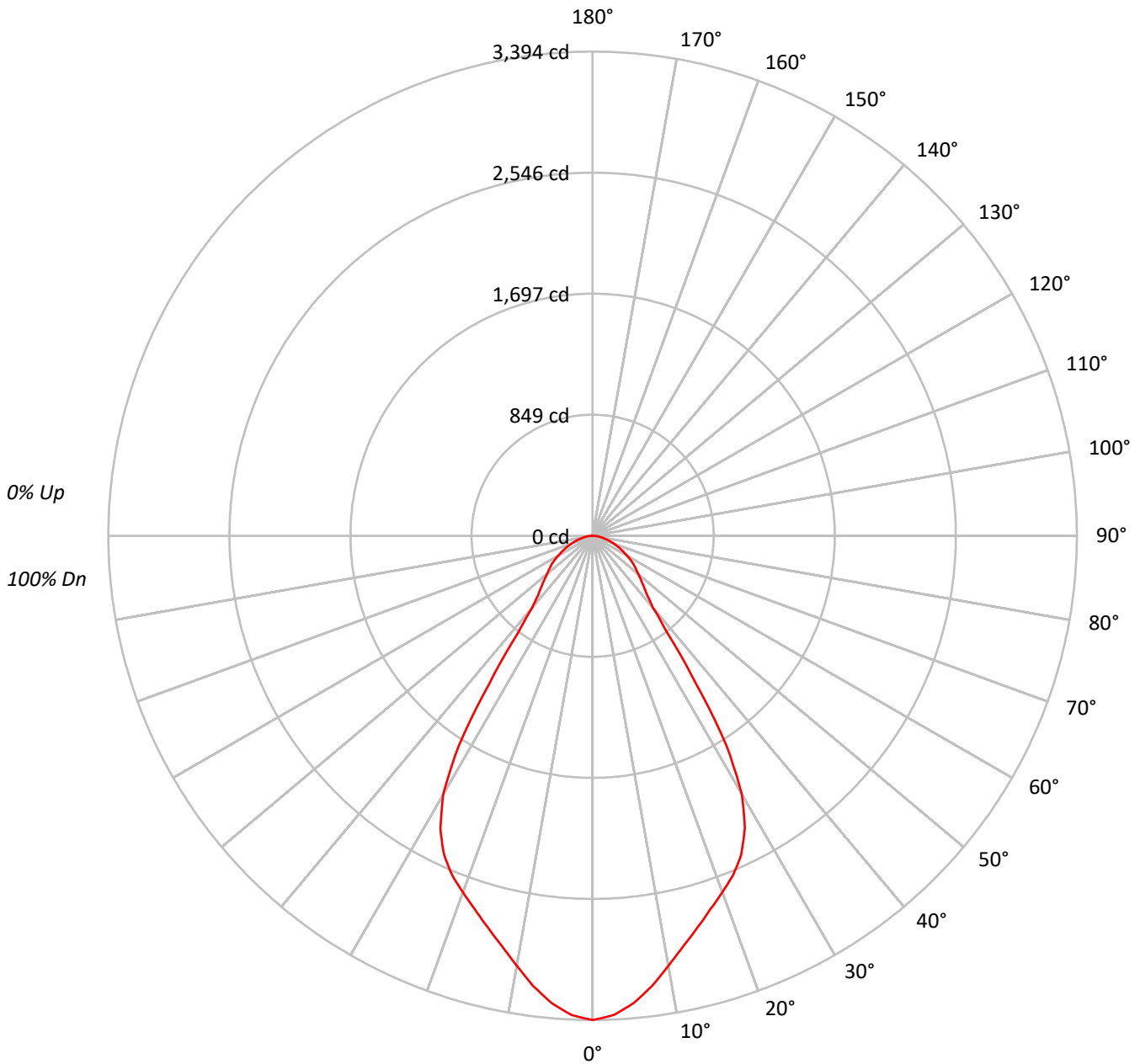
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584407

CATALOG NUMBER: HC835D010-HM82555835-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584407

CATALOG NUMBER: HC835D010-HM82555835-81MDW

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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	104668
5°	101814
10°	95809
15°	90709
20°	87256
25°	83886
30°	74503
35°	47447
40°	26479
45°	22180
50°	20024
55°	18870
60°	17213
65°	15534
70°	13704
75°	12188
80°	10815
85°	9800



TEST NUMBER: P584407

CATALOG NUMBER: HC835D010-HM82555835-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	7.5
10°-20°	801.3	19.6
20°-30°	1117.9	27.3
30°-40°	804.4	19.7
40°-50°	398.7	9.7
50°-60°	311.9	7.6
60°-70°	211.2	5.2
70°-80°	109.7	2.7
80°-90°	31.6	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°	2225.9	54.4
0°-40°	3030.3	74.0
0°-60°	3740.9	91.4
0°-90°	4093.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4093.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3394	
5°	3289	307
15°	2841	801
25°	2466	1118
35°	1260	804
45°	509	399
55°	351	312
65°	213	211
75°	102	110
85°	28	32
90°	0	



TEST NUMBER: P584407

CATALOG NUMBER: HC835D010-HM82555835-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3394.3
2.5°	3363.9
5°	3289.2
7.5°	3184.2
10°	3059.8
12.5°	2943.7
15°	2841.4
17.5°	2744.7
20°	2659.0
22.5°	2573.3
25°	2465.5
27.5°	2310.7
30°	2092.4
32.5°	1749.7
35°	1260.4
37.5°	859.6
40°	657.8
42.5°	566.7
45°	508.6
47.5°	458.8
50°	417.4
52.5°	381.4
55°	351.0
57.5°	315.1
60°	279.1
62.5°	243.2
65°	212.9
67.5°	182.5
70°	152.0
72.5°	127.1
75°	102.3
77.5°	80.1
80°	60.9
82.5°	44.2
85°	27.7
87.5°	13.8
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)