

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: P584383

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555827-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4101.2 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

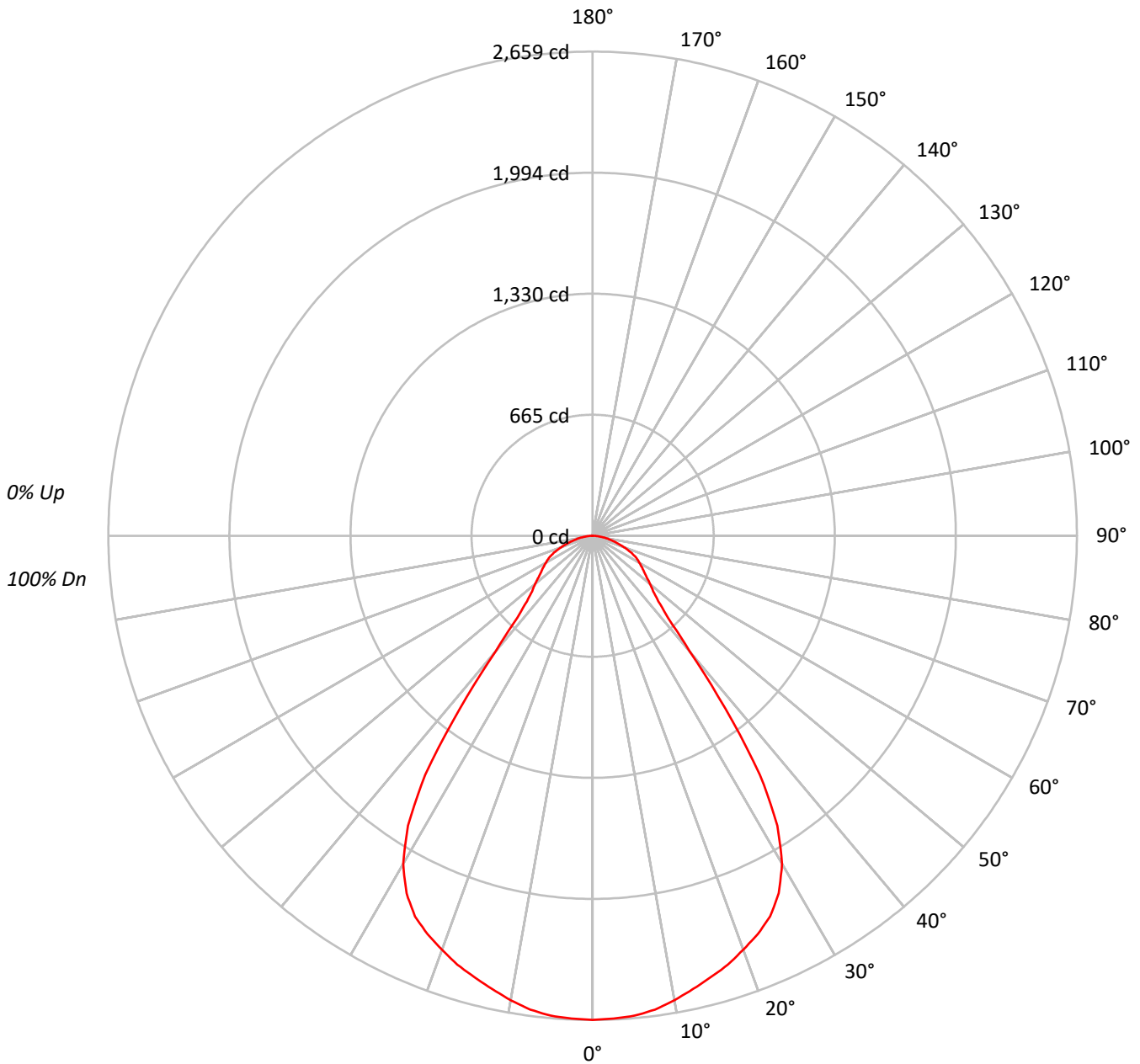
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584383

CATALOG NUMBER: HC835D010-HM82555827-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584383

CATALOG NUMBER: HC835D010-HM82555827-81WDW

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	81994
5°	81895
10°	81086
15°	80114
20°	79374
25°	78480
30°	74051
35°	60298
40°	33314
45°	22236
50°	19726
55°	18515
60°	18280
65°	18110
70°	16364
75°	14631
80°	12803
85°	11322



TEST NUMBER: P584383

CATALOG NUMBER: HC835D010-HM82555827-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	6.1
10°-20°	708.6	17.3
20°-30°	1052.9	25.7
30°-40°	948.2	23.1
40°-50°	420.3	10.2
50°-60°	311.3	7.6
60°-70°	242.0	5.9
70°-80°	131.2	3.2
80°-90°	35.9	0.9
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°	2012.2	49.1
0°-40°	2960.4	72.2
0°-60°	3692.0	90.0
0°-90°	4101.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2659	
5°	2646	251
15°	2510	709
25°	2307	1053
35°	1602	948
45°	510	420
55°	344	311
65°	248	242
75°	123	131
85°	32	36
90°	0	



TEST NUMBER: P584383

CATALOG NUMBER: HC835D010-HM82555827-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2659.0
2.5°	2653.7
5°	2645.7
7.5°	2624.3
10°	2589.6
12.5°	2549.6
15°	2509.5
17.5°	2469.4
20°	2418.8
22.5°	2368.0
25°	2306.6
27.5°	2213.2
30°	2079.7
32.5°	1887.4
35°	1601.8
37.5°	1196.0
40°	827.6
42.5°	611.3
45°	509.9
47.5°	451.2
50°	411.2
52.5°	373.8
55°	344.4
57.5°	320.3
60°	296.4
62.5°	274.9
65°	248.2
67.5°	216.2
70°	181.5
72.5°	152.1
75°	122.8
77.5°	96.1
80°	72.1
82.5°	50.7
85°	32.0
87.5°	13.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)