

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: P584376

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555827-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3575.2 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

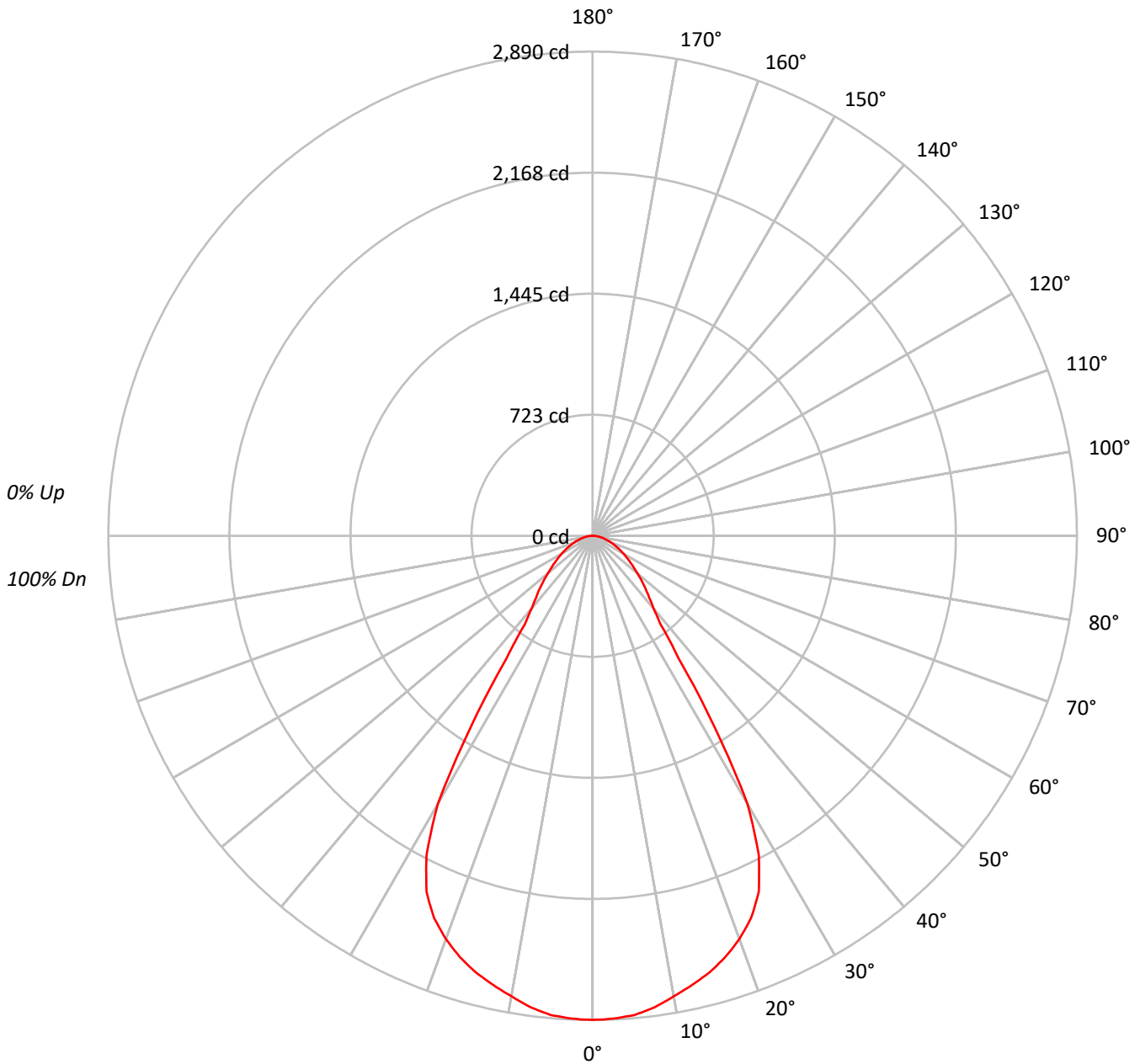
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584376

CATALOG NUMBER: HC835D010-HM82555827-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584376

CATALOG NUMBER: HC835D010-HM82555827-81NDW

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	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	89114
5°	88875
10°	87395
15°	86122
20°	84053
25°	79790
30°	65812
35°	33884
40°	22683
45°	19450
50°	16786
55°	14645
60°	13013
65°	11696
70°	10594
75°	9543
80°	8524
85°	8527



TEST NUMBER: P584376

CATALOG NUMBER: HC835D010-HM82555827-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	7.6
10°-20°	759.0	21.2
20°-30°	1051.6	29.4
30°-40°	631.6	17.7
40°-50°	345.8	9.7
50°-60°	245.6	6.9
60°-70°	159.5	4.5
70°-80°	85.2	2.4
80°-90°	25.4	0.7
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°	2082.1	58.2
0°-40°	2713.7	75.9
0°-60°	3305.1	92.4
0°-90°	3575.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3575.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2890	
5°	2871	271
15°	2698	759
25°	2345	1052
35°	900	632
45°	446	346
55°	272	246
65°	160	159
75°	80	85
85°	24	25
90°	0	



TEST NUMBER: P584376

CATALOG NUMBER: HC835D010-HM82555827-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2889.9
2.5°	2884.7
5°	2871.2
7.5°	2839.3
10°	2791.1
12.5°	2745.7
15°	2697.7
17.5°	2636.2
20°	2561.4
22.5°	2470.6
25°	2345.1
27.5°	2147.4
30°	1848.3
32.5°	1354.2
35°	900.1
37.5°	665.0
40°	563.5
42.5°	499.4
45°	446.0
47.5°	395.3
50°	349.9
52.5°	307.2
55°	272.4
57.5°	240.4
60°	211.0
62.5°	184.3
65°	160.3
67.5°	136.2
70°	117.5
72.5°	96.2
75°	80.1
77.5°	64.1
80°	48.0
82.5°	34.7
85°	24.1
87.5°	10.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)