

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: P584342

Luminaire Tested: **HC830D010-HM82555935-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584342
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: HC830D010-HM82555935-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2871.8 lumens
Efficiency: N/A
Efficacy: 102.6 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

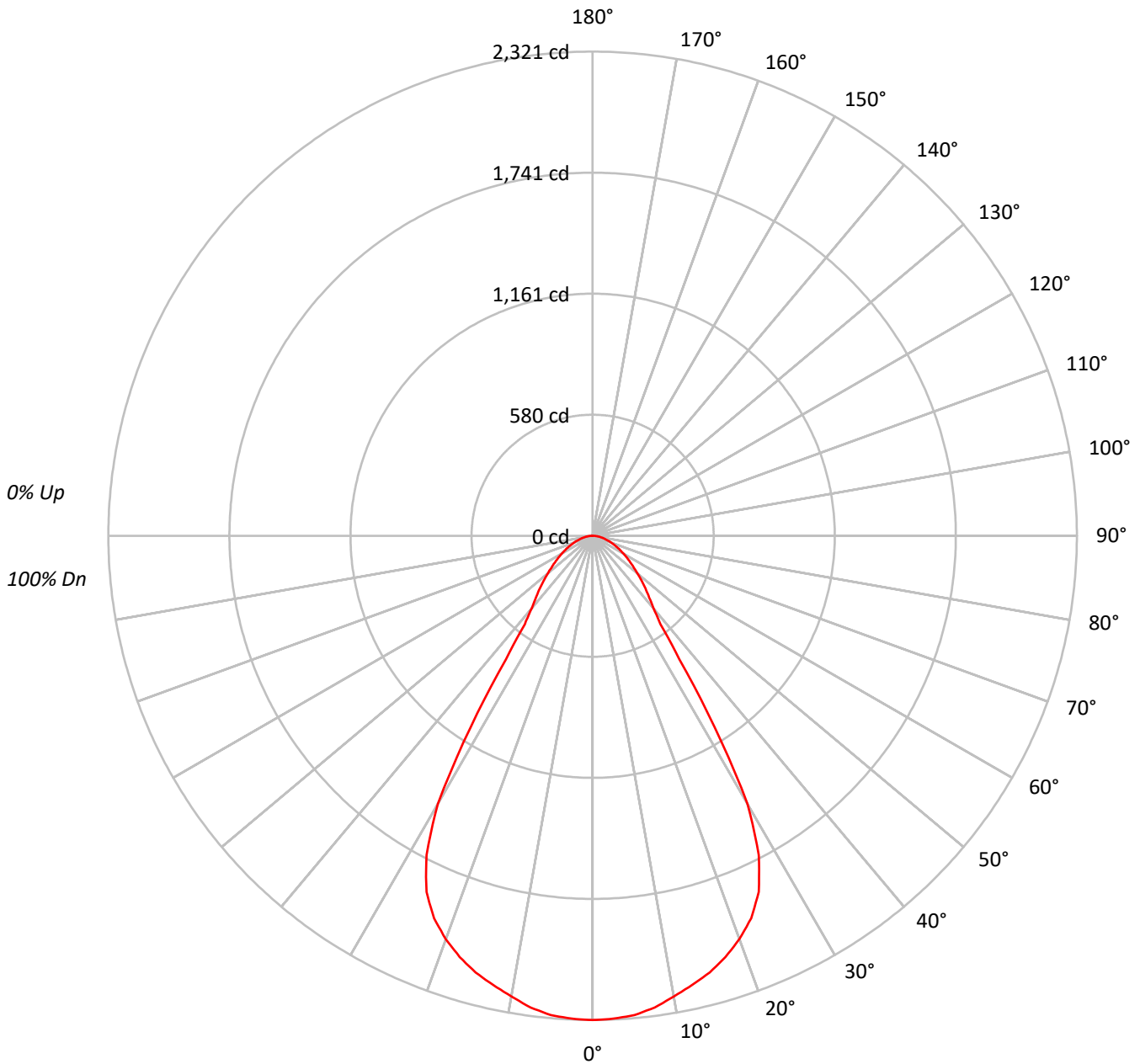
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584342

CATALOG NUMBER: HC830D010-HM82555935-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584342

CATALOG NUMBER: HC830D010-HM82555935-81NDW

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°	71583
5°	71389
10°	70202
15°	69173
20°	67514
25°	64091
30°	52862
35°	27217
40°	18223
45°	15621
50°	13485
55°	11763
60°	10447
65°	9398
70°	8511
75°	7661
80°	6855
85°	6828



TEST NUMBER: P584342

CATALOG NUMBER: HC830D010-HM82555935-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.1	7.6
10°-20°	609.6	21.2
20°-30°	844.7	29.4
30°-40°	507.4	17.7
40°-50°	277.8	9.7
50°-60°	197.3	6.9
60°-70°	128.1	4.5
70°-80°	68.4	2.4
80°-90°	20.4	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°	1672.4	58.2
0°-40°	2179.8	75.9
0°-60°	2654.8	92.4
0°-90°	2871.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2321	
5°	2306	218
15°	2167	610
25°	1884	845
35°	723	507
45°	358	278
55°	219	197
65°	129	128
75°	64	68
85°	19	20
90°	0	



TEST NUMBER: P584342

CATALOG NUMBER: HC830D010-HM82555935-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2321.4
2.5°	2317.0
5°	2306.3
7.5°	2280.6
10°	2242.0
12.5°	2205.5
15°	2166.8
17.5°	2117.5
20°	2057.4
22.5°	1984.6
25°	1883.7
27.5°	1724.9
30°	1484.6
32.5°	1087.7
35°	723.0
37.5°	534.2
40°	452.7
42.5°	401.2
45°	358.2
47.5°	317.6
50°	281.1
52.5°	246.7
55°	218.8
57.5°	193.1
60°	169.4
62.5°	148.0
65°	128.8
67.5°	109.4
70°	94.4
72.5°	77.3
75°	64.3
77.5°	51.5
80°	38.6
82.5°	27.9
85°	19.3
87.5°	8.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)