

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: P584322

Luminaire Tested: **HC830D010-HM82555930-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584322
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: HC830D010-HM82555930-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3159.3 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

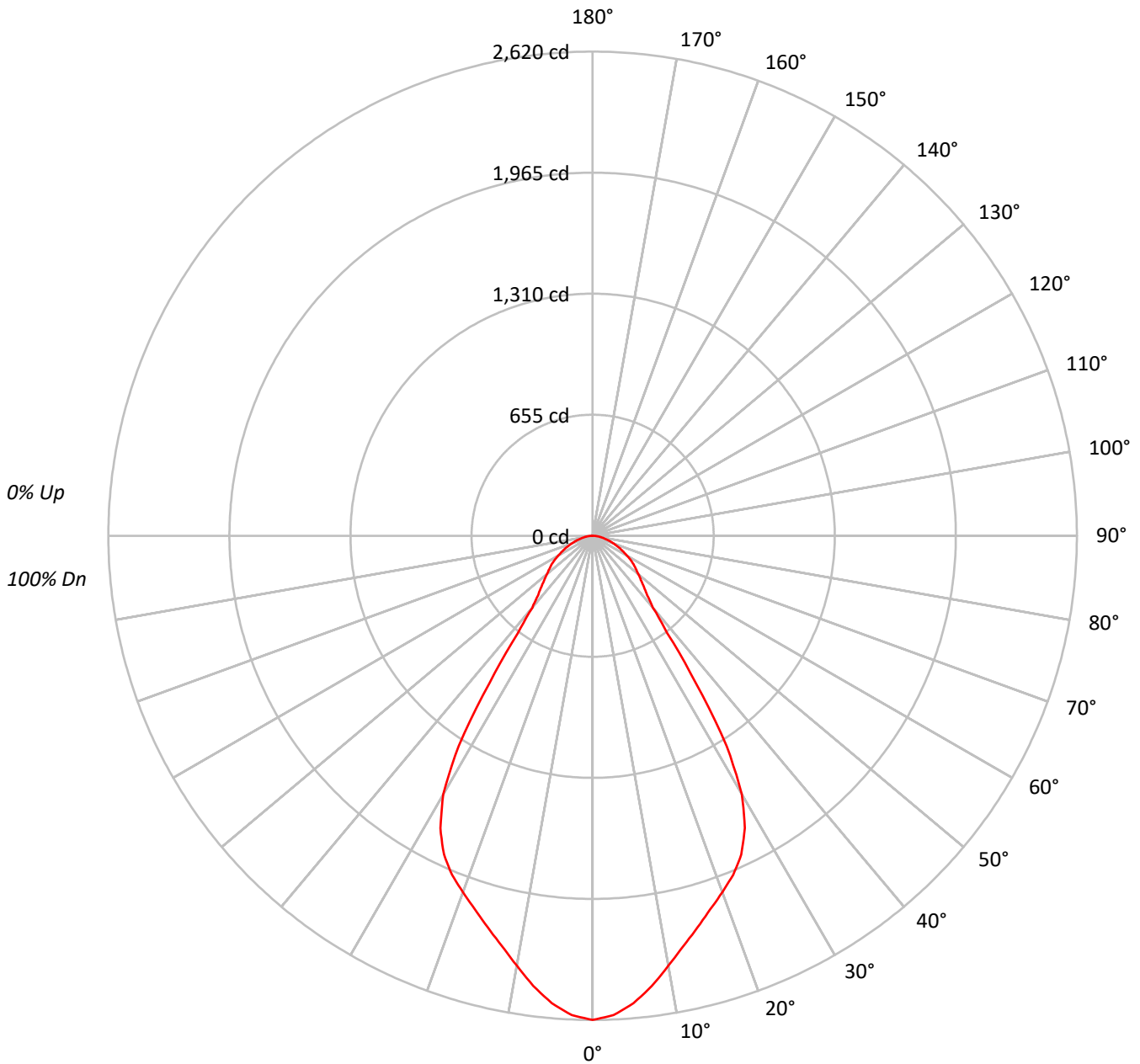
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584322

CATALOG NUMBER: HC830D010-HM82555930-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584322

CATALOG NUMBER: HC830D010-HM82555930-81MDW

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°	80785
5°	78586
10°	73950
15°	70013
20°	67347
25°	64748
30°	57505
35°	36620
40°	20437
45°	17117
50°	15452
55°	14569
60°	13284
65°	11988
70°	10585
75°	9400
80°	8346
85°	7536



TEST NUMBER: P584322

CATALOG NUMBER: HC830D010-HM82555930-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.7	7.5
10°-20°	618.5	19.6
20°-30°	862.9	27.3
30°-40°	620.9	19.7
40°-50°	307.7	9.7
50°-60°	240.7	7.6
60°-70°	163.0	5.2
70°-80°	84.6	2.7
80°-90°	24.4	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°	1718.0	54.4
0°-40°	2338.9	74.0
0°-60°	2887.3	91.4
0°-90°	3159.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3159.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2620	
5°	2539	237
15°	2193	619
25°	1903	863
35°	973	621
45°	392	308
55°	271	241
65°	164	163
75°	79	85
85°	21	24
90°	0	



TEST NUMBER: P584322

CATALOG NUMBER: HC830D010-HM82555930-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2619.8
2.5°	2596.3
5°	2538.8
7.5°	2457.7
10°	2361.7
12.5°	2272.1
15°	2193.1
17.5°	2118.4
20°	2052.3
22.5°	1986.2
25°	1903.0
27.5°	1783.5
30°	1615.0
32.5°	1350.5
35°	972.8
37.5°	663.5
40°	507.7
42.5°	437.3
45°	392.5
47.5°	354.1
50°	322.1
52.5°	294.4
55°	271.0
57.5°	243.2
60°	215.4
62.5°	187.7
65°	164.3
67.5°	140.8
70°	117.4
72.5°	98.1
75°	78.9
77.5°	61.8
80°	47.0
82.5°	34.1
85°	21.3
87.5°	10.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)