

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: P584323

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555930-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3167.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

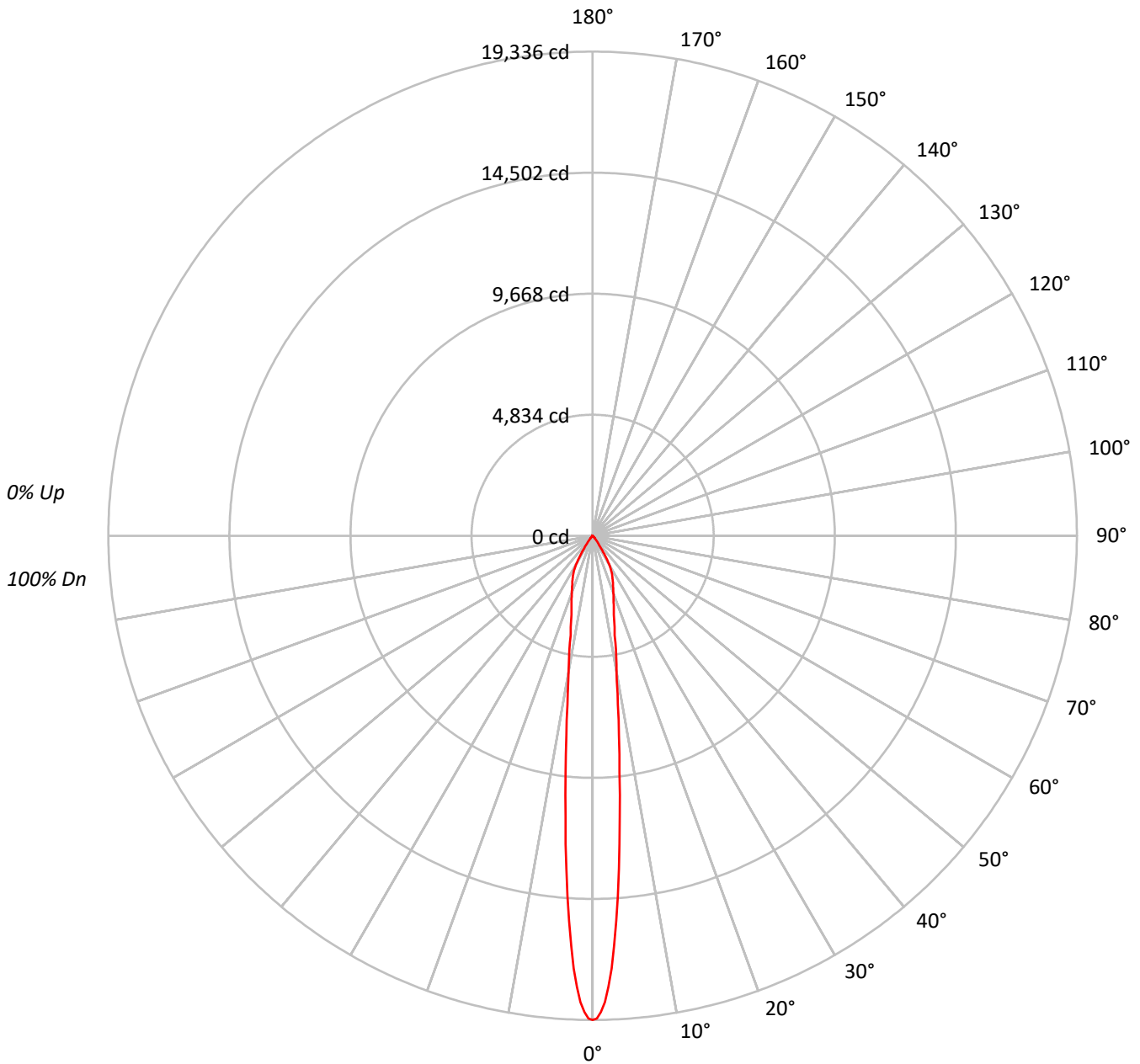
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584323

CATALOG NUMBER: HC830D010-HM82555930-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P584323

CATALOG NUMBER: HC830D010-HM82555930-81NDC

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	596257
5°	382453
10°	172770
15°	104245
20°	79439
25°	64149
30°	47012
35°	17023
40°	6352
45°	2883
50°	916
55°	231
60°	130
65°	153
70°	0
75°	0
80°	373
85°	743



TEST NUMBER: P584323

CATALOG NUMBER: HC830D010-HM82555930-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.3	29.7
10°-20°	957.2	30.2
20°-30°	856.8	27.0
30°-40°	345.1	10.9
40°-50°	56.6	1.8
50°-60°	5.1	0.2
60°-70°	1.8	0.1
70°-80°	1.4	0.0
80°-90°	2.0	0.1
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°	2756.3	87.0
0°-40°	3101.4	97.9
0°-60°	3163.1	99.9
0°-90°	3168.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3167.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19336	
5°	12356	942
15°	3265	957
25°	1885	857
35°	452	345
45°	66	57
55°	4	5
65°	2	2
75°	0	1
85°	2	2
90°	0	



TEST NUMBER: P584323

CATALOG NUMBER: HC830D010-HM82555930-81NDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	19336.2
0.5°	19276.5
1°	19027.0
1.5°	18626.0
2°	18018.2
2.5°	17299.4
3°	16399.4
3.5°	15411.8
4°	14435.1
4.5°	13340.8
5°	12355.5
5.5°	11282.7
6°	10412.5
6.5°	9506.1
7°	8793.7
7.5°	8040.7
8°	7435.1
8.5°	6827.2
9°	6370.8
9.5°	5867.5
10°	5517.7
12.5°	4069.5
15°	3265.4
17.5°	2789.8
20°	2420.8
22.5°	2126.4
25°	1885.4
27.5°	1644.4
30°	1320.3
32.5°	848.8
35°	452.2
37.5°	249.6
40°	157.8
42.5°	104.5
45°	66.1
47.5°	40.5
50°	19.1
52.5°	6.4
55°	4.3
57.5°	2.1
60°	2.1
62.5°	2.1
65°	2.1



TEST NUMBER: P584323

CATALOG NUMBER: HC830D010-HM82555930-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	2.1
80°	2.1
82.5°	2.1
85°	2.1
87.5°	2.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







67.5°		2.1
70°		0.0



(END OF REPORT)