

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: P584307

Luminaire Tested: **HC830D010-HM82555927-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC830D010-HM82555927-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2425.6 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

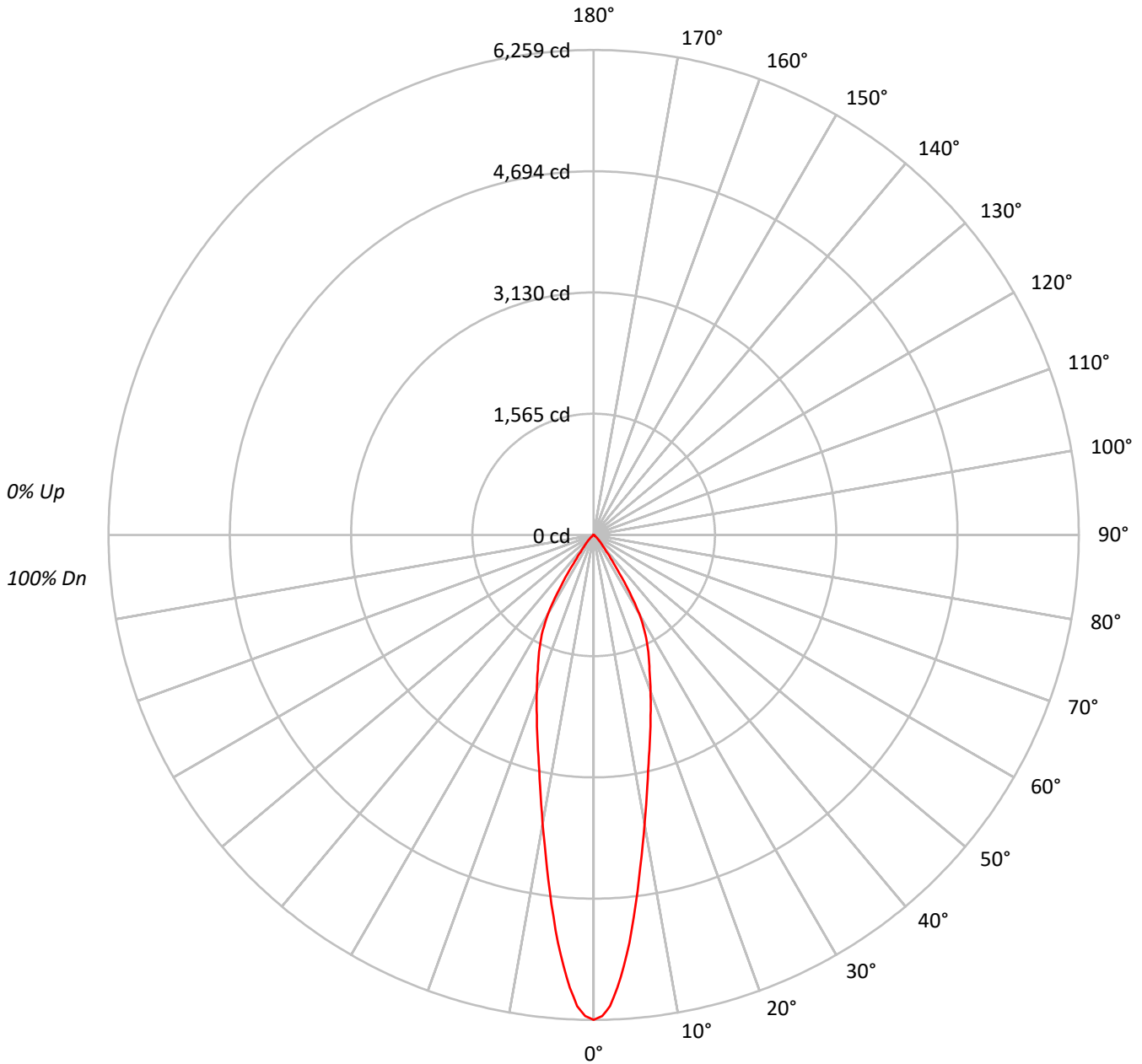
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC830D010-HM82555927-81NDH

Luminous Intensity Polar Plot





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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			100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	193004
5°	163515
10°	118641
15°	89094
20°	70297
25°	56701
30°	42019
35°	17023
40°	7181
45°	3846
50°	1727
55°	871
60°	555
65°	394
70°	325
75°	214
80°	320
85°	637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.6	18.7
10°-20°	783.8	32.3
20°-30°	757.9	31.2
30°-40°	332.9	13.7
40°-50°	72.0	3.0
50°-60°	16.1	0.7
60°-70°	5.6	0.2
70°-80°	2.1	0.1
80°-90°	1.7	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°	1995.2	82.3
0°-40°	2328.1	96.0
0°-60°	2416.2	99.6
0°-90°	2425.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6259	
5°	5282	454
15°	2791	784
25°	1666	758
35°	452	333
45°	88	72
55°	16	16
65°	5	6
75°	2	2
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6259.0
1°	6212.2
2°	6084.2
3°	5853.7
4°	5578.0
5°	5282.5
6°	4960.0
7°	4635.7
8°	4331.3
9°	4048.4
10°	3789.0
11°	3543.9
12°	3324.1
13°	3124.1
14°	2947.5
15°	2790.8
17.5°	2439.5
20°	2142.2
22.5°	1881.0
25°	1666.5
27.5°	1448.6
30°	1180.1
32.5°	801.7
35°	452.2
37.5°	266.7
40°	178.4
42.5°	126.2
45°	88.2
47.5°	57.7
50°	36.0
52.5°	21.6
55°	16.2
57.5°	12.6
60°	9.0
62.5°	7.3
65°	5.4
67.5°	3.6
70°	3.6
72.5°	1.8
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		1.8
87.5°		1.8



(END OF REPORT)