

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: P584306

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584306
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-HM82555927-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2660.3 lumens
Efficiency: N/A
Efficacy: 95.0 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

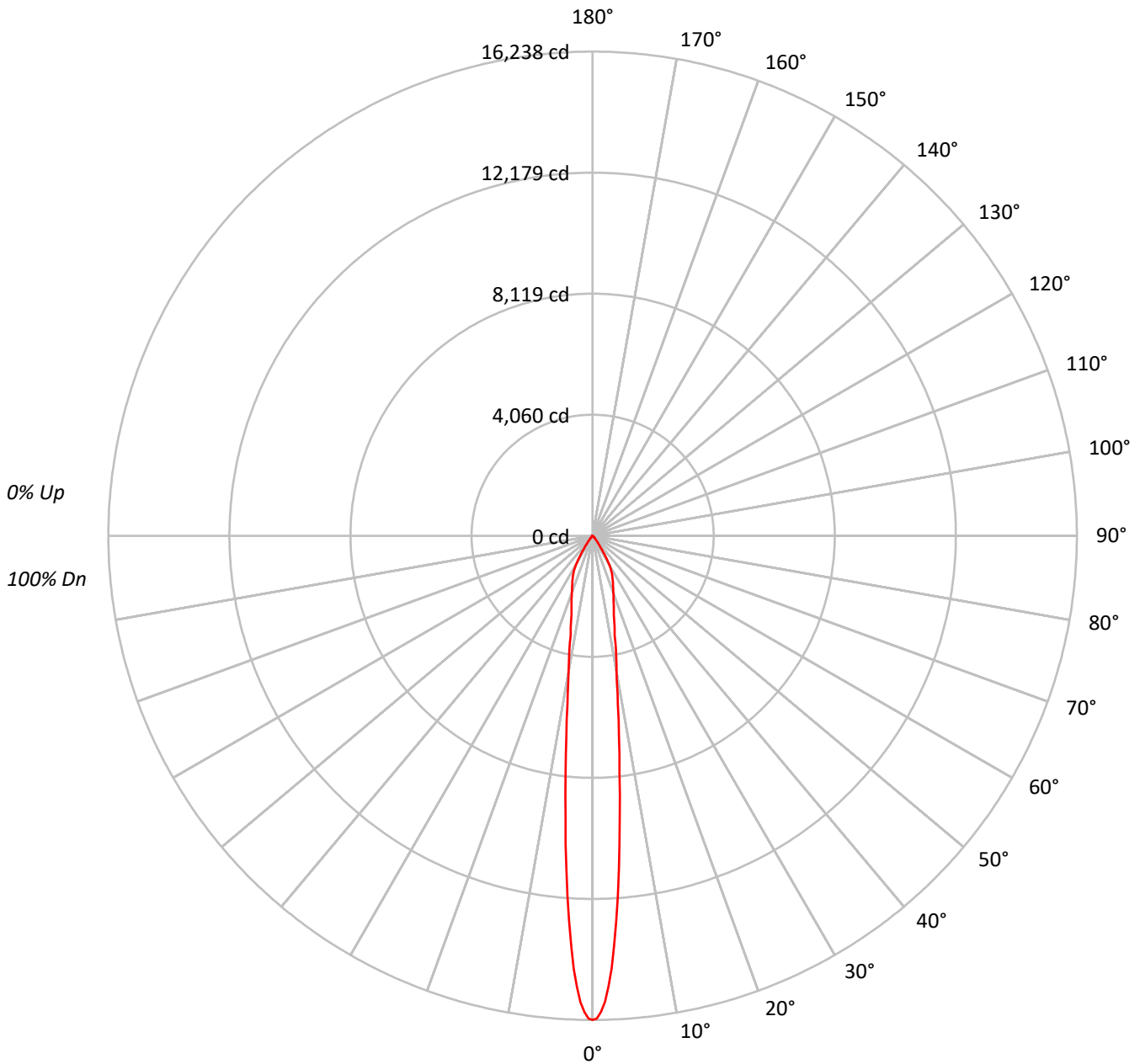
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	500717
5°	321170
10°	145084
15°	87542
20°	66707
25°	53870
30°	39474
35°	14297
40°	5338
45°	2420
50°	777
55°	194
60°	111
65°	131
70°	0
75°	0
80°	320
85°	637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.3	29.7
10°-20°	803.8	30.2
20°-30°	719.5	27.0
30°-40°	289.8	10.9
40°-50°	47.5	1.8
50°-60°	4.3	0.2
60°-70°	1.6	0.1
70°-80°	1.2	0.0
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°	2314.6	87.0
0°-40°	2604.4	97.9
0°-60°	2656.3	99.8
0°-90°	2660.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16238	
5°	10376	791
15°	2742	804
25°	1583	720
35°	380	290
45°	56	48
55°	4	4
65°	2	2
75°	0	1
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16237.9
0.5°	16187.8
1°	15978.3
1.5°	15641.5
2°	15131.1
2.5°	14527.4
3°	13771.6
3.5°	12942.4
4°	12122.1
4.5°	11203.2
5°	10375.7
5.5°	9474.8
6°	8744.0
6.5°	7982.8
7°	7384.6
7.5°	6752.3
8°	6243.7
8.5°	5733.2
9°	5349.9
9.5°	4927.2
10°	4633.5
12.5°	3417.4
15°	2742.2
17.5°	2342.7
20°	2032.8
22.5°	1785.8
25°	1583.3
27.5°	1380.9
30°	1108.6
32.5°	712.8
35°	379.8
37.5°	209.5
40°	132.6
42.5°	87.7
45°	55.5
47.5°	34.0
50°	16.2
52.5°	5.4
55°	3.6
57.5°	1.8
60°	1.8
62.5°	1.8
65°	1.8



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	1.8
80°	1.8
82.5°	1.8
85°	1.8
87.5°	1.8
90°	0.0



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— 0°-180°







67.5°		1.8
70°		0.0



(END OF REPORT)