

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: P584272

Luminaire Tested: **HC830D010-HM82555835-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584272
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-HM82555835-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3415.3 lumens
Efficiency: N/A
Efficacy: 122.0 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

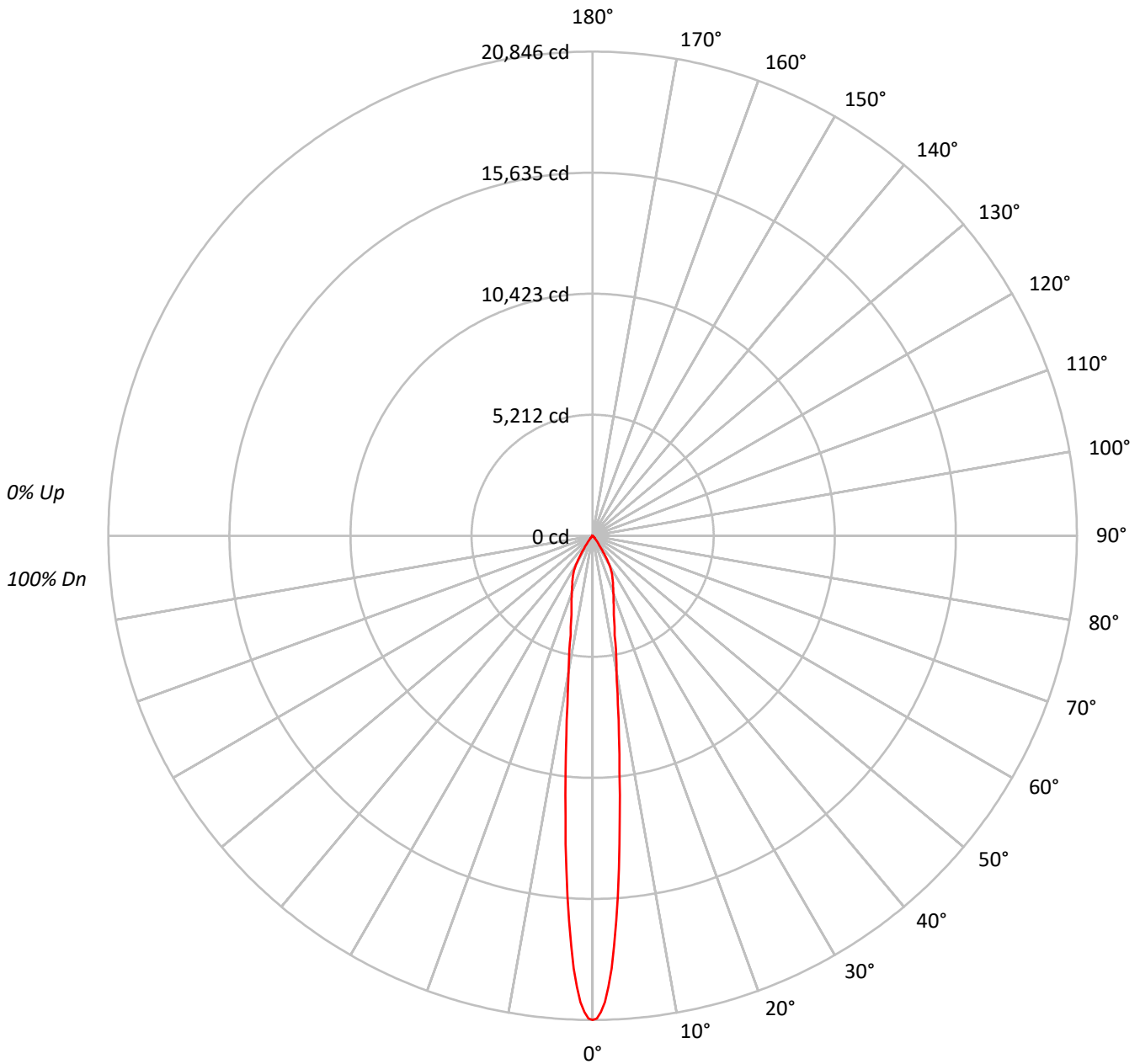
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	642826
5°	412324
10°	186263
15°	112386
20°	85645
25°	69161
30°	50683
35°	18352
40°	6847
45°	3109
50°	993
55°	247
60°	142
65°	168
70°	0
75°	0
80°	408
85°	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1015.9	29.7
10°-20°	1031.9	30.2
20°-30°	923.7	27.0
30°-40°	372.1	10.9
40°-50°	61.0	1.8
50°-60°	5.5	0.2
60°-70°	2.0	0.1
70°-80°	1.5	0.0
80°-90°	2.2	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°	2971.5	87.0
0°-40°	3343.7	97.9
0°-60°	3410.2	99.9
0°-90°	3415.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3415.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20846	
5°	13320	###
15°	3520	1032
25°	2033	924
35°	488	372
45°	71	61
55°	5	6
65°	2	2
75°	0	2
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20846.4
0.5°	20781.9
1°	20513.0
1.5°	20080.7
2°	19425.3
2.5°	18650.4
3°	17680.1
3.5°	16615.4
4°	15562.3
4.5°	14382.7
5°	13320.5
5.5°	12163.8
6°	11225.7
6.5°	10248.5
7°	9480.4
7.5°	8668.8
8°	8015.8
8.5°	7360.4
9°	6868.3
9.5°	6325.6
10°	5948.6
12.5°	4387.3
15°	3520.4
17.5°	3007.6
20°	2609.9
22.5°	2292.5
25°	2032.7
27.5°	1772.8
30°	1423.4
32.5°	915.2
35°	487.5
37.5°	269.1
40°	170.1
42.5°	112.7
45°	71.3
47.5°	43.6
50°	20.7
52.5°	6.9
55°	4.6
57.5°	2.3
60°	2.3
62.5°	2.3
65°	2.3



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	2.3
80°	2.3
82.5°	2.3
85°	2.3
87.5°	2.3
90°	0.0



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— 0°-180°







67.5°		2.3
70°		0.0



(END OF REPORT)