

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: P593677

Luminaire Tested: **HC830D010-HM82555950-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593677
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-HM82555950-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3511.1 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

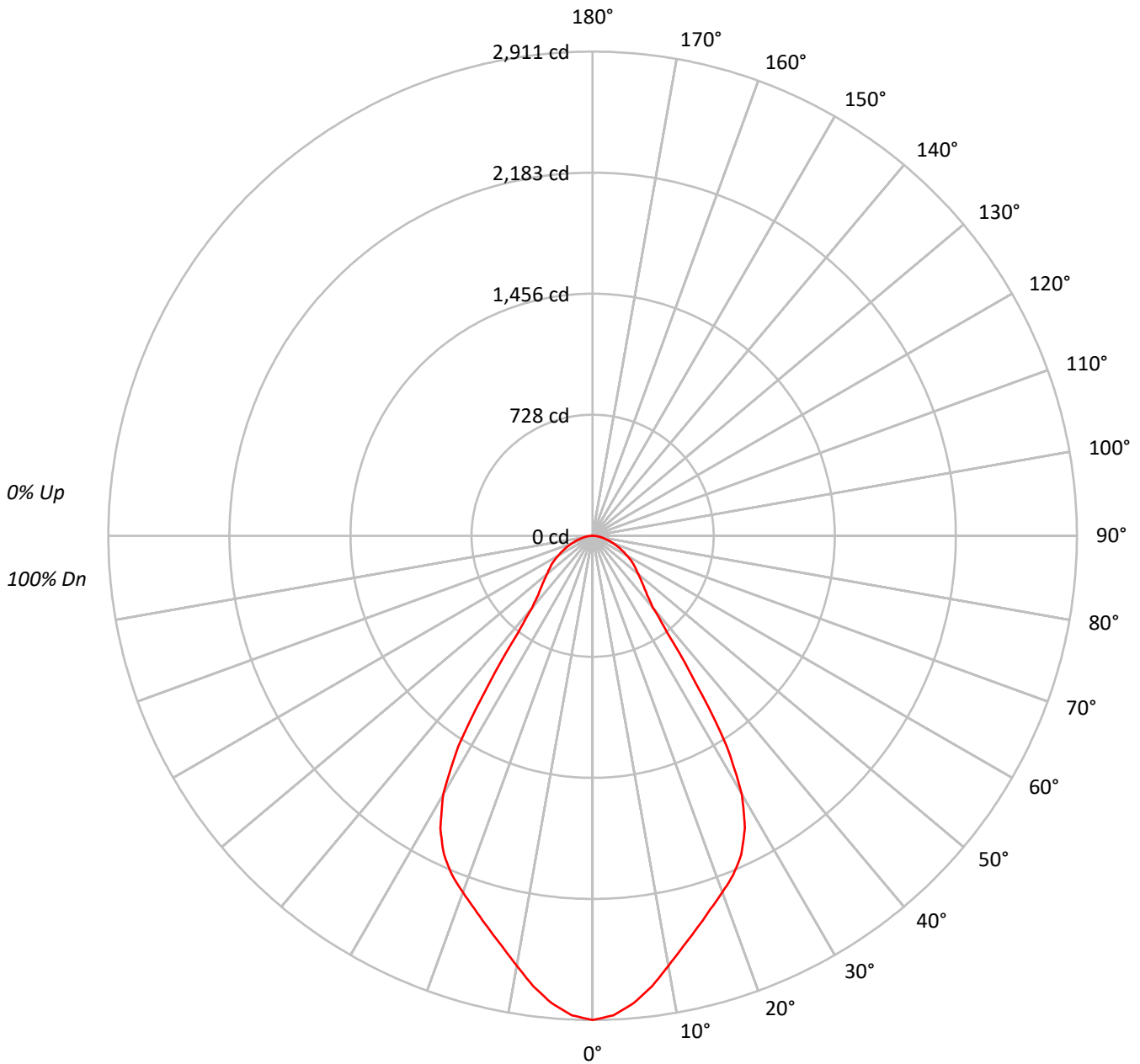
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	89777
5°	87331
10°	82178
15°	77805
20°	74842
25°	71954
30°	63903
35°	40701
40°	22715
45°	19022
50°	17174
55°	16188
60°	14771
65°	13316
70°	11757
75°	10449
80°	9270
85°	8385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	7.5
10°-20°	687.3	19.6
20°-30°	958.9	27.3
30°-40°	690.0	19.7
40°-50°	342.0	9.7
50°-60°	267.6	7.6
60°-70°	181.1	5.2
70°-80°	94.0	2.7
80°-90°	27.1	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°	1909.3	54.4
0°-40°	2599.3	74.0
0°-60°	3208.8	91.4
0°-90°	3511.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2911	
5°	2821	263
15°	2437	687
25°	2115	959
35°	1081	690
45°	436	342
55°	301	268
65°	182	181
75°	88	94
85°	24	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2911.4
2.5°	2885.3
5°	2821.3
7.5°	2731.3
10°	2624.5
12.5°	2525.0
15°	2437.2
17.5°	2354.2
20°	2280.7
22.5°	2207.3
25°	2114.8
27.5°	1982.1
30°	1794.7
32.5°	1500.8
35°	1081.2
37.5°	737.3
40°	564.3
42.5°	486.1
45°	436.2
47.5°	393.6
50°	358.0
52.5°	327.2
55°	301.1
57.5°	270.3
60°	239.5
62.5°	208.7
65°	182.5
67.5°	156.5
70°	130.4
72.5°	109.0
75°	87.7
77.5°	68.7
80°	52.2
82.5°	37.9
85°	23.7
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)