

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: P584237

Luminaire Tested: **HC830D010-HM82555827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584237
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-HM82555827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3290.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

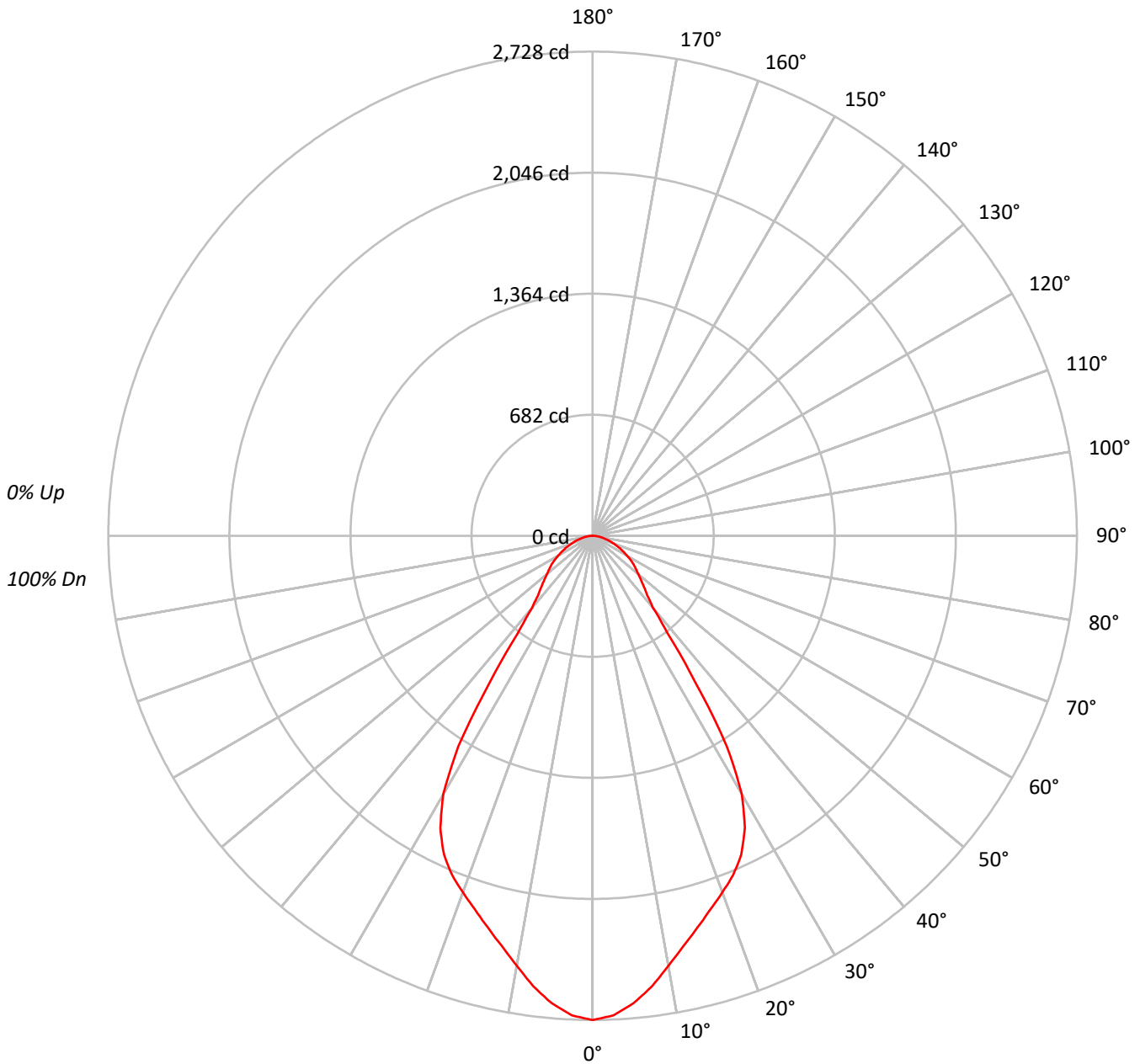
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	84137
5°	81846
10°	77018
15°	72921
20°	70143
25°	67432
30°	59890
35°	38145
40°	21290
45°	17832
50°	16095
55°	15166
60°	13839
65°	12484
70°	11017
75°	9794
80°	8684
85°	7855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	7.5
10°-20°	644.2	19.6
20°-30°	898.7	27.3
30°-40°	646.7	19.7
40°-50°	320.5	9.7
50°-60°	250.7	7.6
60°-70°	169.7	5.2
70°-80°	88.2	2.7
80°-90°	25.4	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°	1789.4	54.4
0°-40°	2436.0	74.0
0°-60°	3007.2	91.4
0°-90°	3290.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2728	
5°	2644	246
15°	2284	644
25°	1982	899
35°	1013	647
45°	409	320
55°	282	251
65°	171	170
75°	82	88
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2728.5
2.5°	2704.1
5°	2644.1
7.5°	2559.7
10°	2459.7
12.5°	2366.3
15°	2284.2
17.5°	2206.4
20°	2137.5
22.5°	2068.6
25°	1981.9
27.5°	1857.6
30°	1682.0
32.5°	1406.5
35°	1013.3
37.5°	691.0
40°	528.9
42.5°	455.5
45°	408.9
47.5°	368.8
50°	335.5
52.5°	306.6
55°	282.1
57.5°	253.3
60°	224.4
62.5°	195.6
65°	171.1
67.5°	146.6
70°	122.2
72.5°	102.3
75°	82.2
77.5°	64.4
80°	48.9
82.5°	35.6
85°	22.2
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)