

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: P584288

Luminaire Tested: **HC830D010-HM82555840-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584288  
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-HM82555840-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3689.0 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

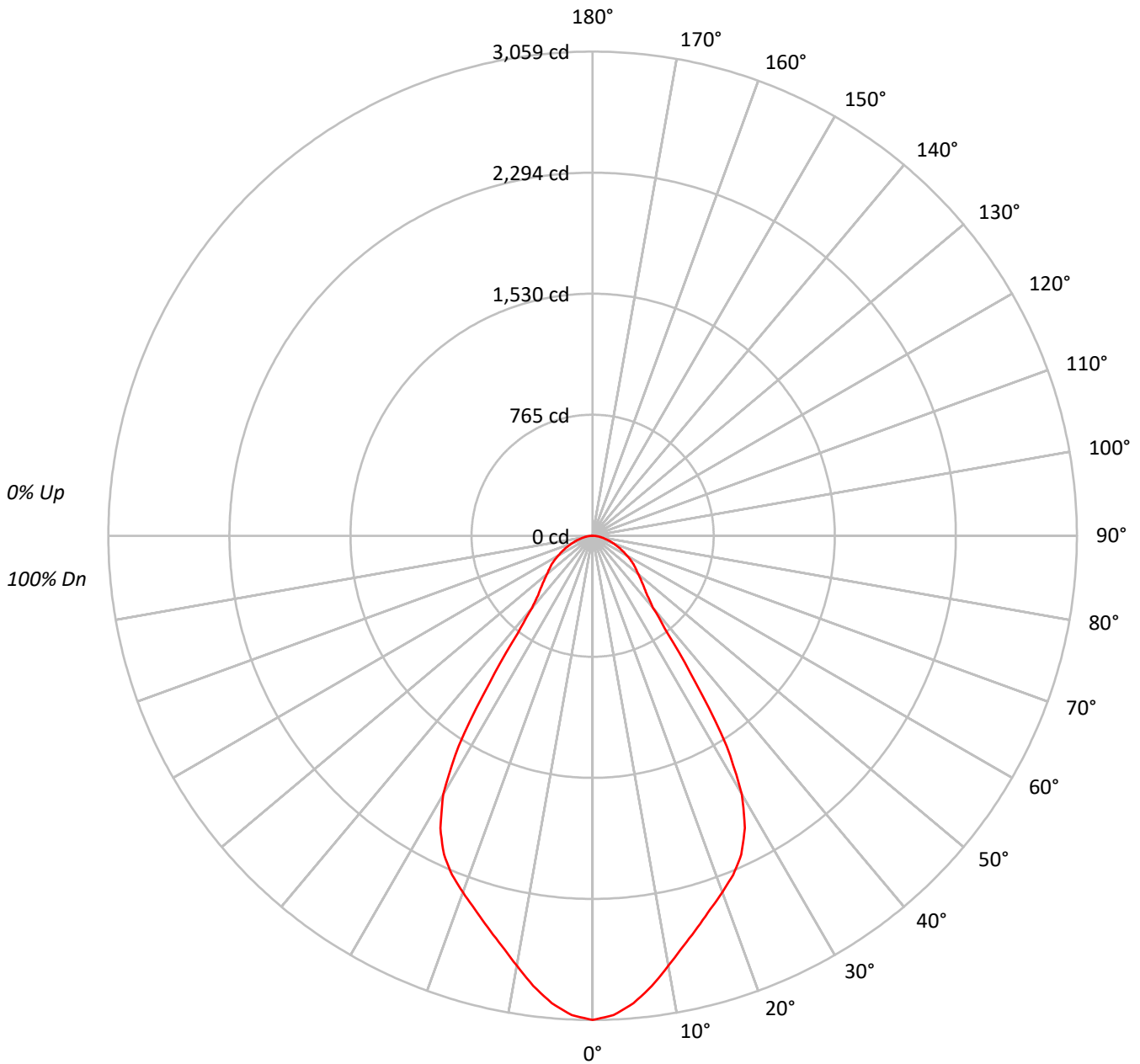
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	94325
5°	91757
10°	86343
15°	81748
20°	78635
25°	75602
30°	67147
35°	42760
40°	23863
45°	19990
50°	18047
55°	17010
60°	15517
65°	13995
70°	12352
75°	10973
80°	9731
85°	8845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.4	7.5
10°-20°	722.2	19.6
20°-30°	1007.5	27.3
30°-40°	725.0	19.7
40°-50°	359.3	9.7
50°-60°	281.1	7.6
60°-70°	190.3	5.2
70°-80°	98.8	2.7
80°-90°	28.5	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°	2006.0	54.4
0°-40°	2731.0	74.0
0°-60°	3371.4	91.4
0°-90°	3689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3689.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3059	
5°	2964	276
15°	2561	722
25°	2222	1008
35°	1136	725
45°	458	359
55°	316	281
65°	192	190
75°	92	99
85°	25	28
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3058.9
2.5°	3031.6
5°	2964.3
7.5°	2869.7
10°	2757.5
12.5°	2652.9
15°	2560.7
17.5°	2473.6
20°	2396.3
22.5°	2319.1
25°	2222.0
27.5°	2082.5
30°	1885.8
32.5°	1576.9
35°	1135.9
37.5°	774.8
40°	592.8
42.5°	510.7
45°	458.4
47.5°	413.5
50°	376.2
52.5°	343.7
55°	316.4
57.5°	283.9
60°	251.6
62.5°	219.3
65°	191.8
67.5°	164.4
70°	137.0
72.5°	114.6
75°	92.1
77.5°	72.3
80°	54.8
82.5°	39.8
85°	25.0
87.5°	12.5
90°	0.0



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— 0°-180°







(END OF REPORT)