

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: P584530

Luminaire Tested: **HC840D010-HM82555830-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC840D010-HM82555830-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4492.3 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

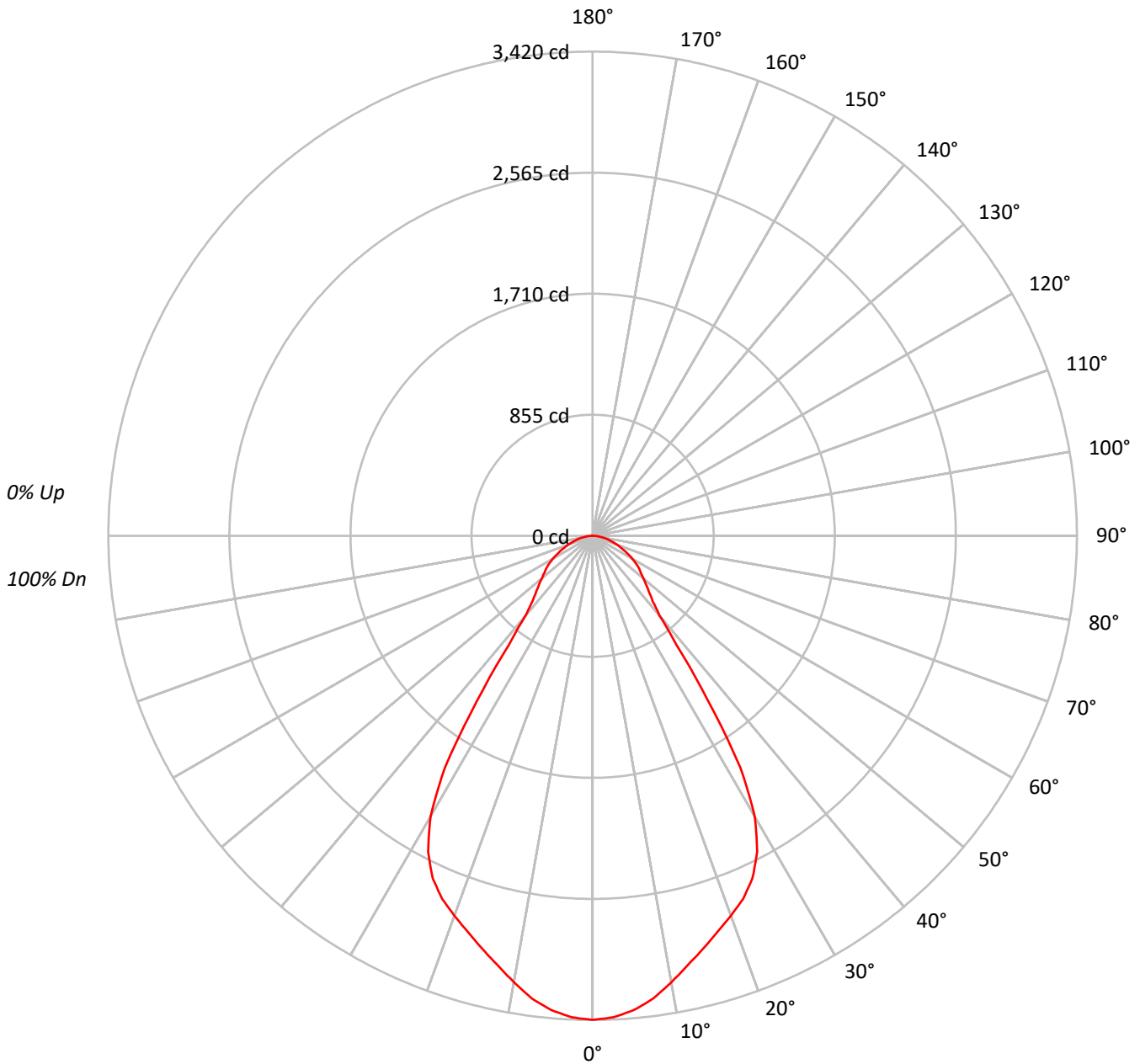
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	105448
5°	104071
10°	100264
15°	96341
20°	93678
25°	90858
30°	81532
35°	53447
40°	29550
45°	24635
50°	22466
55°	21440
60°	19933
65°	18081
70°	16337
75°	14762
80°	13425
85°	12843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.9	7.0
10°-20°	851.4	19.0
20°-30°	1211.7	27.0
30°-40°	896.8	20.0
40°-50°	444.2	9.9
50°-60°	354.5	7.9
60°-70°	246.1	5.5
70°-80°	132.6	3.0
80°-90°	39.1	0.9
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°	2379.0	53.0
0°-40°	3275.8	72.9
0°-60°	4074.5	90.7
0°-90°	4492.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4492.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3420	
5°	3362	316
15°	3018	851
25°	2670	1212
35°	1420	897
45°	565	444
55°	399	355
65°	248	246
75°	124	133
85°	36	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3419.6
2.5°	3404.5
5°	3362.1
7.5°	3295.7
10°	3202.1
12.5°	3105.4
15°	3017.8
17.5°	2933.2
20°	2854.7
22.5°	2776.2
25°	2670.4
27.5°	2516.4
30°	2289.8
32.5°	1942.4
35°	1419.8
37.5°	969.7
40°	734.1
42.5°	628.3
45°	564.9
47.5°	513.5
50°	468.3
52.5°	429.0
55°	398.8
57.5°	362.5
60°	323.2
62.5°	283.9
65°	247.8
67.5°	211.5
70°	181.2
72.5°	151.0
75°	123.9
77.5°	99.7
80°	75.6
82.5°	54.4
85°	36.3
87.5°	15.1
90°	0.0



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— 0°-180°







(END OF REPORT)