

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: P593696

Luminaire Tested: **HC835D010-HM82555850-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593696  
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: HC835D010-HM82555850-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4451.3 lumens  
Efficiency: N/A  
Efficacy: 132.1 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

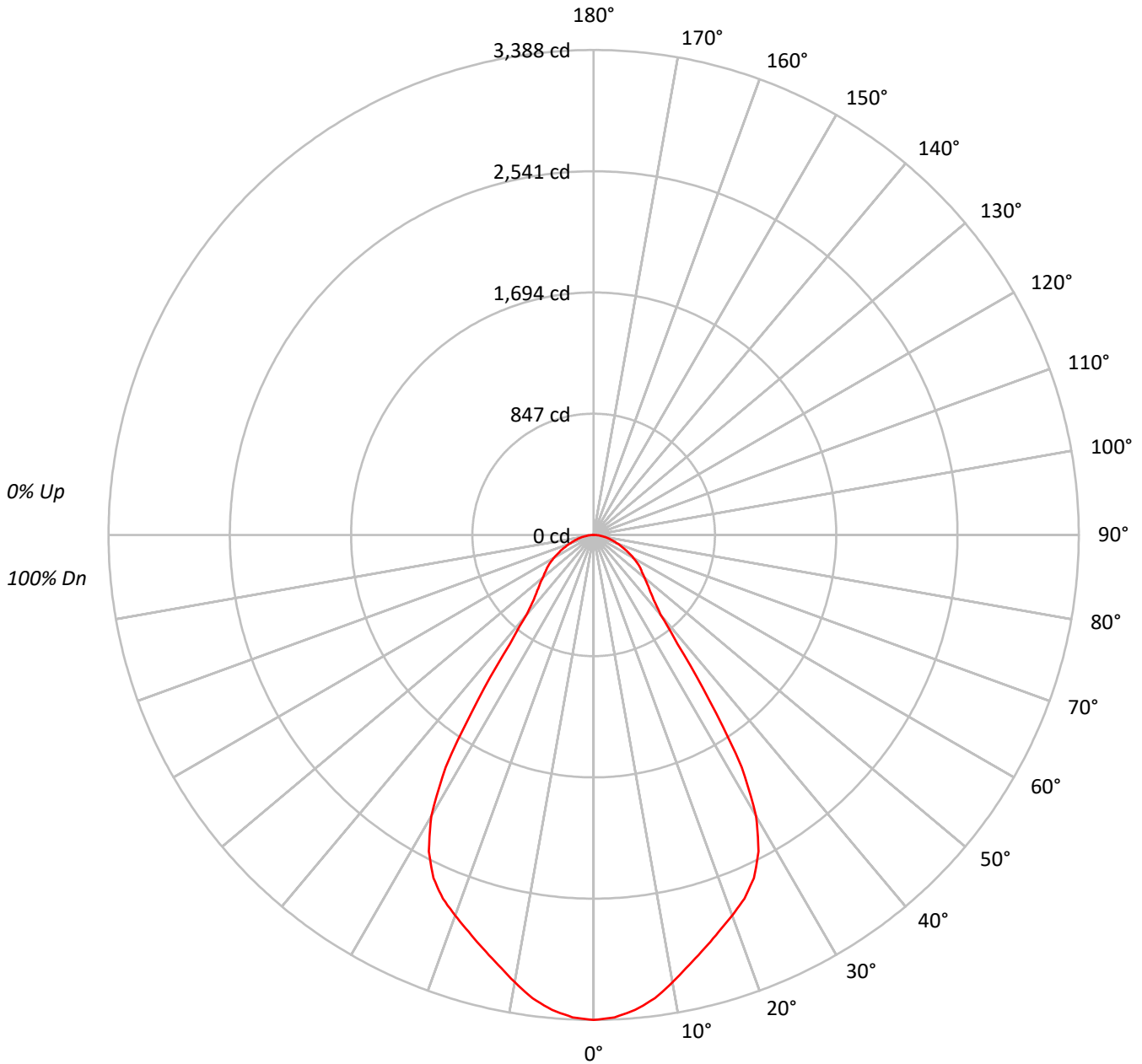
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	104483
5°	103124
10°	99350
15°	95459
20°	92821
25°	90028
30°	80788
35°	52958
40°	29277
45°	24408
50°	22259
55°	21241
60°	19748
65°	17913
70°	16193
75°	14619
80°	13301
85°	12702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.0	7.0
10°-20°	843.6	19.0
20°-30°	1200.6	27.0
30°-40°	888.6	20.0
40°-50°	440.1	9.9
50°-60°	351.3	7.9
60°-70°	243.9	5.5
70°-80°	131.4	3.0
80°-90°	38.7	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°	2357.3	53.0
0°-40°	3245.9	72.9
0°-60°	4037.3	90.7
0°-90°	4451.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3388	
5°	3332	313
15°	2990	844
25°	2646	1201
35°	1407	889
45°	560	440
55°	395	351
65°	246	244
75°	123	131
85°	36	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3388.3
2.5°	3373.4
5°	3331.5
7.5°	3265.6
10°	3172.9
12.5°	3077.1
15°	2990.2
17.5°	2906.5
20°	2828.6
22.5°	2750.8
25°	2646.0
27.5°	2493.4
30°	2268.9
32.5°	1924.7
35°	1406.8
37.5°	960.8
40°	727.3
42.5°	622.6
45°	559.7
47.5°	508.9
50°	464.0
52.5°	425.1
55°	395.1
57.5°	359.2
60°	320.2
62.5°	281.4
65°	245.5
67.5°	209.5
70°	179.6
72.5°	149.6
75°	122.7
77.5°	98.8
80°	74.9
82.5°	53.9
85°	35.9
87.5°	15.0
90°	0.0



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— 0°-180°







(END OF REPORT)