

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: P584397

Luminaire Tested: **HC835D010-HM82555830-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555830-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3905.9 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

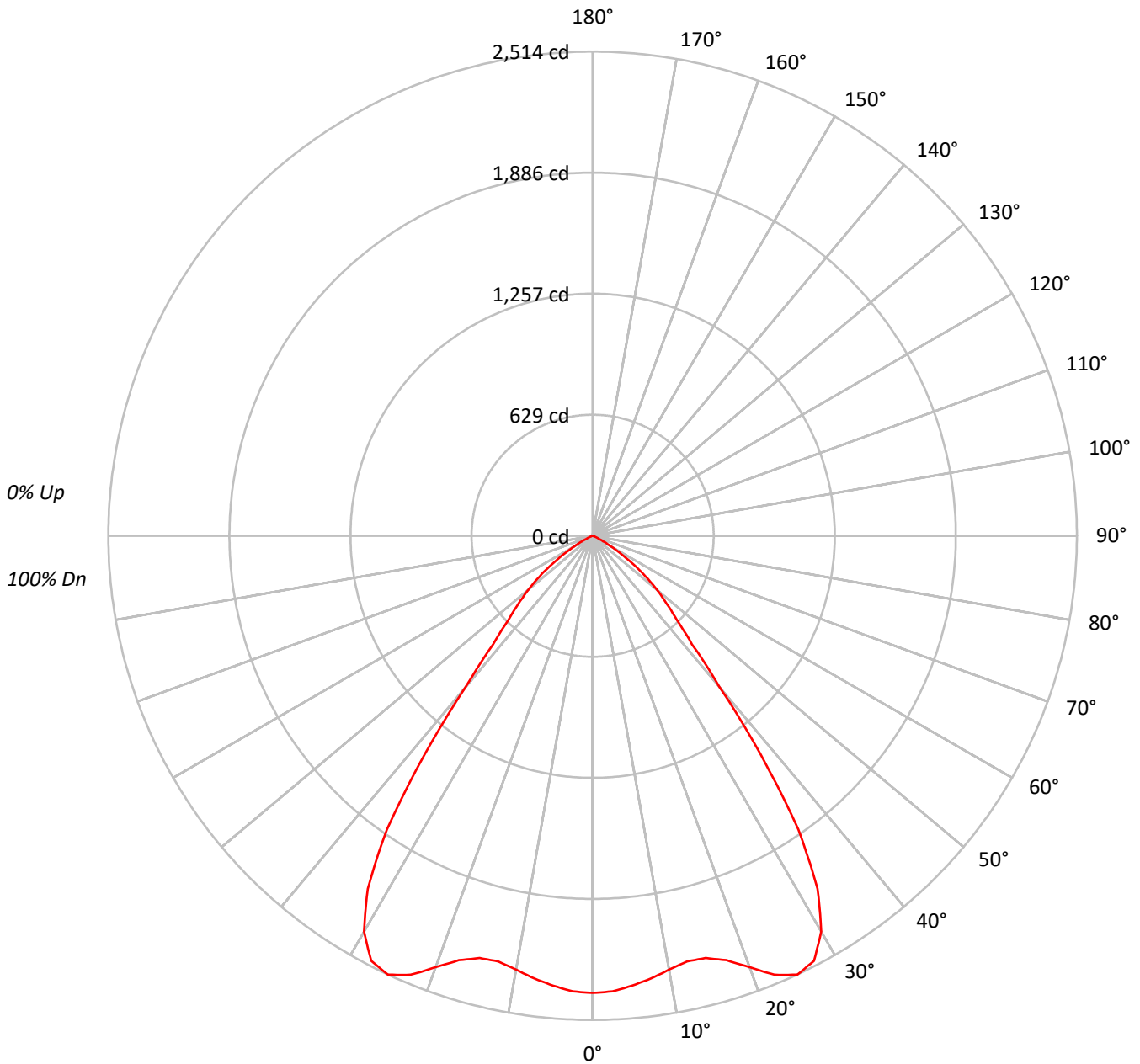
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
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	45	42	50	45	41	40			

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

	0°
0°	73181
5°	72575
10°	71617
15°	72433
20°	78222
25°	85540
30°	84502
35°	70097
40°	41256
45°	26950
50°	20892
55°	13881
60°	6753
65°	2087
70°	703
75°	631
80°	462
85°	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.0	5.7
10°-20°	651.8	16.7
20°-30°	1139.7	29.2
30°-40°	1108.6	28.4
40°-50°	504.1	12.9
50°-60°	233.7	6.0
60°-70°	39.2	1.0
70°-80°	4.8	0.1
80°-90°	1.8	0.0
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°	2013.6	51.6
0°-40°	3122.2	79.9
0°-60°	3860.1	98.8
0°-90°	3905.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3905.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2373	
5°	2345	222
15°	2269	652
25°	2514	1140
35°	1862	1109
45°	618	504
55°	258	234
65°	29	39
75°	5	5
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2373.2
2.5°	2368.0
5°	2344.6
7.5°	2318.5
10°	2287.2
12.5°	2263.7
15°	2268.9
17.5°	2310.7
20°	2383.7
22.5°	2467.2
25°	2514.1
27.5°	2488.0
30°	2373.2
32.5°	2172.5
35°	1862.1
37.5°	1434.4
40°	1024.9
42.5°	764.1
45°	618.0
47.5°	521.6
50°	435.5
52.5°	346.8
55°	258.2
57.5°	177.3
60°	109.5
62.5°	60.0
65°	28.6
67.5°	13.1
70°	7.8
72.5°	5.3
75°	5.3
77.5°	2.6
80°	2.6
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)