

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: P584384

Luminaire Tested: **HC835D010-HM82555827-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555827-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4397.7 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

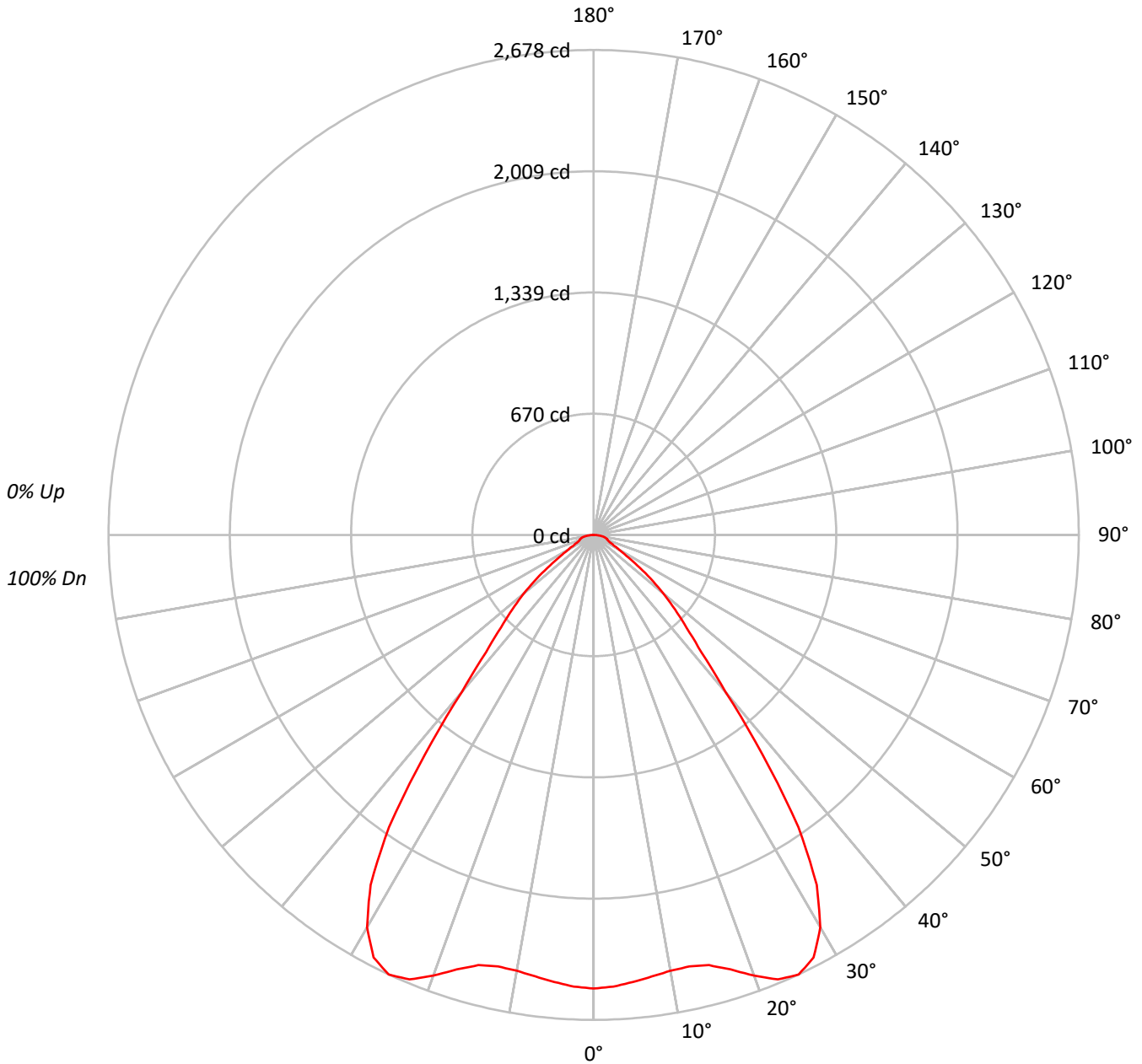
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

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

	0°
0°	77236
5°	76701
10°	76502
15°	78511
20°	84995
25°	91120
30°	89084
35°	74182
40°	45571
45°	31556
50°	24082
55°	15790
60°	9880
65°	7406
70°	7465
75°	8590
80°	9483
85°	8527



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.4	5.4
10°-20°	706.0	16.1
20°-30°	1215.3	27.6
30°-40°	1177.5	26.8
40°-50°	580.0	13.2
50°-60°	273.7	6.2
60°-70°	107.9	2.5
70°-80°	74.4	1.7
80°-90°	27.6	0.6
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°	2156.7	49.0
0°-40°	3334.2	75.8
0°-60°	4187.8	95.2
0°-90°	4397.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4397.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2505	
5°	2478	235
15°	2459	706
25°	2678	1215
35°	1971	1177
45°	724	580
55°	294	274
65°	102	108
75°	72	74
85°	24	28
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2504.7
2.5°	2496.6
5°	2477.9
7.5°	2459.3
10°	2443.2
12.5°	2440.6
15°	2459.3
17.5°	2515.3
20°	2590.1
22.5°	2656.8
25°	2678.1
27.5°	2630.1
30°	2501.9
32.5°	2291.1
35°	1970.6
37.5°	1530.0
40°	1132.1
42.5°	878.5
45°	723.6
47.5°	608.8
50°	502.0
52.5°	395.2
55°	293.7
57.5°	213.6
60°	160.2
62.5°	125.6
65°	101.5
67.5°	88.2
70°	82.8
72.5°	77.4
75°	72.1
77.5°	64.1
80°	53.4
82.5°	40.0
85°	24.1
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)