

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: P584390

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584390  
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: HC835D010-HM82555830-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3861.5 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

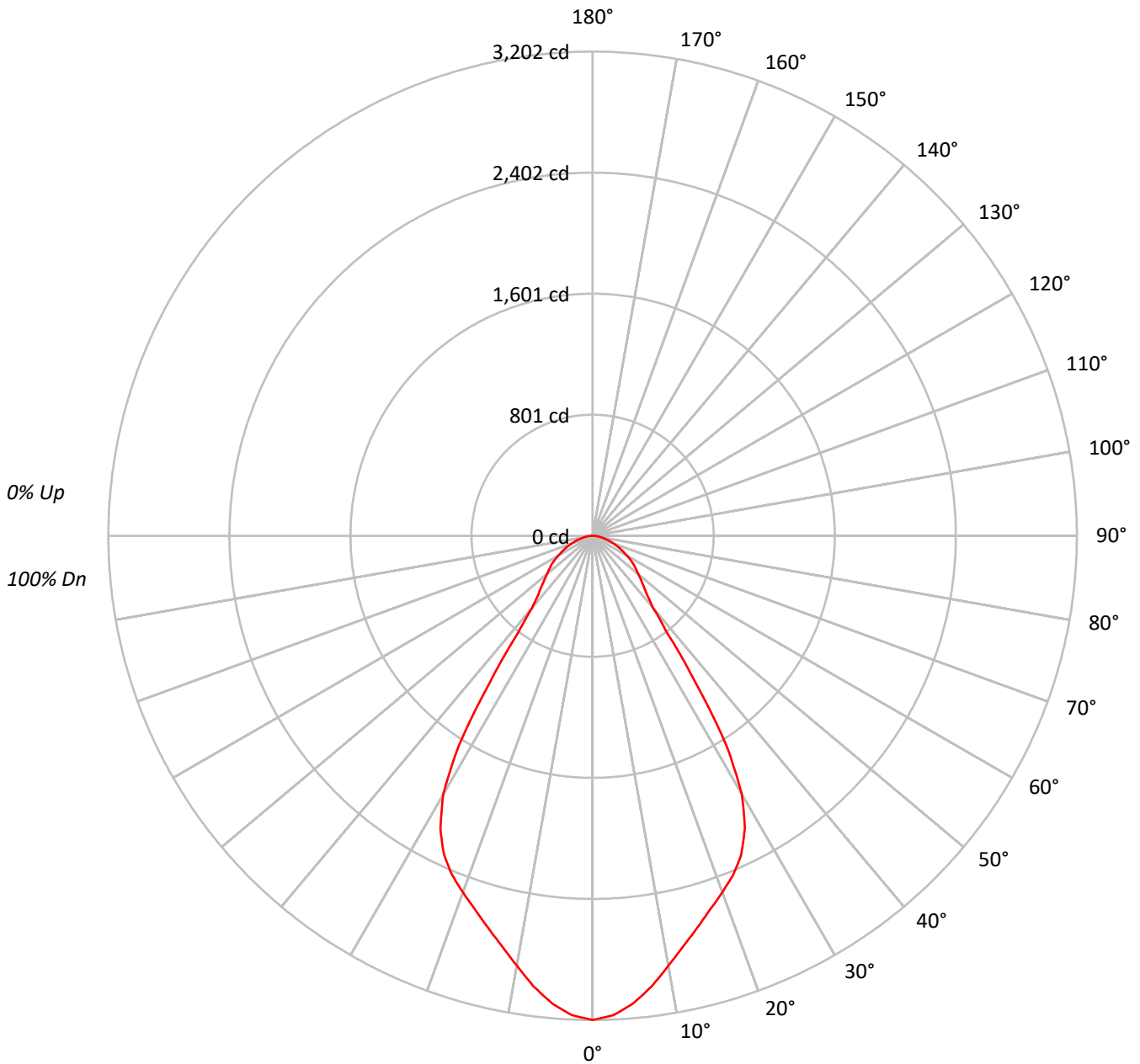
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	98738
5°	96047
10°	90385
15°	85573
20°	82317
25°	79137
30°	70284
35°	44759
40°	24982
45°	20924
50°	18892
55°	17800
60°	16238
65°	14651
70°	12929
75°	11485
80°	10193
85°	9234



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.3	7.5
10°-20°	756.0	19.6
20°-30°	1054.6	27.3
30°-40°	758.9	19.7
40°-50°	376.1	9.7
50°-60°	294.2	7.6
60°-70°	199.2	5.2
70°-80°	103.4	2.7
80°-90°	29.8	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°	2099.9	54.4
0°-40°	2858.7	74.0
0°-60°	3529.1	91.4
0°-90°	3861.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3202	
5°	3103	289
15°	2680	756
25°	2326	1055
35°	1189	759
45°	480	376
55°	331	294
65°	201	199
75°	96	103
85°	26	30
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3202.0
2.5°	3173.4
5°	3102.9
7.5°	3003.9
10°	2886.6
12.5°	2777.1
15°	2680.5
17.5°	2589.2
20°	2508.5
22.5°	2427.6
25°	2325.9
27.5°	2179.9
30°	1973.9
32.5°	1650.6
35°	1189.0
37.5°	810.9
40°	620.6
42.5°	534.5
45°	479.8
47.5°	432.8
50°	393.8
52.5°	359.9
55°	331.1
57.5°	297.2
60°	263.3
62.5°	229.4
65°	200.8
67.5°	172.2
70°	143.4
72.5°	119.9
75°	96.4
77.5°	75.6
80°	57.4
82.5°	41.7
85°	26.1
87.5°	13.1
90°	0.0



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— 0°-180°







(END OF REPORT)