

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: P584399

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555830-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4148.3 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

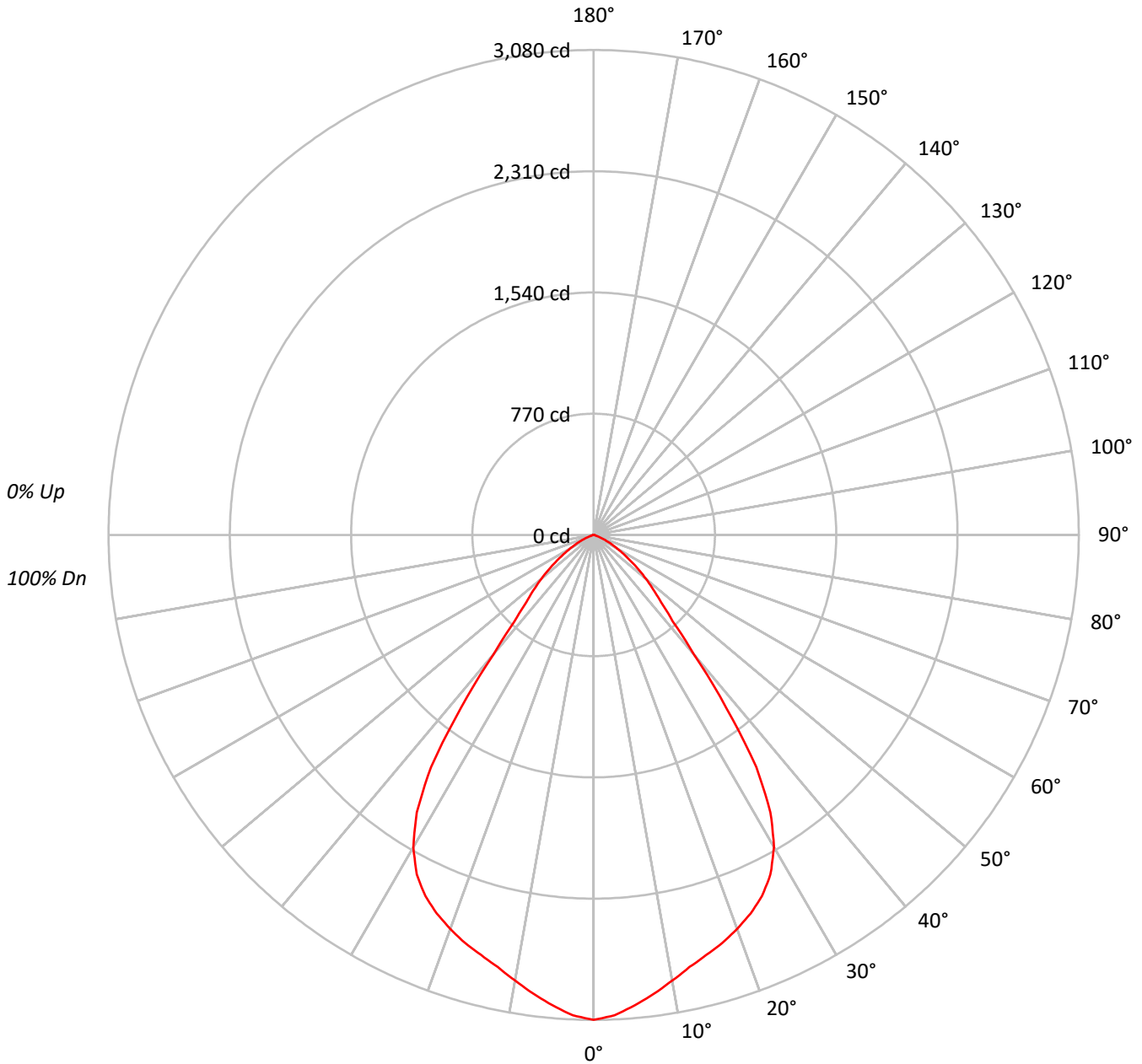
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	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	72	79	74	71	77	73	70	68		
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62		
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57		
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

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

	0°
0°	94970
5°	92834
10°	89988
15°	88165
20°	87377
25°	86067
30°	81529
35°	67737
40°	39892
45°	26384
50°	20772
55°	15284
60°	10620
65°	6472
70°	2822
75°	1239
80°	941
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.4	6.8
10°-20°	780.8	18.8
20°-30°	1156.8	27.9
30°-40°	1068.9	25.8
40°-50°	492.8	11.9
50°-60°	259.3	6.2
60°-70°	91.6	2.2
70°-80°	14.4	0.3
80°-90°	1.4	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°	2220.0	53.5
0°-40°	3288.9	79.3
0°-60°	4041.0	97.4
0°-90°	4148.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4148.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3080	
5°	2999	282
15°	2762	781
25°	2530	1157
35°	1799	1069
45°	605	493
55°	284	259
65°	89	92
75°	10	14
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3079.8
2.5°	3053.8
5°	2999.1
7.5°	2939.1
10°	2873.9
12.5°	2811.2
15°	2761.7
17.5°	2717.4
20°	2662.7
22.5°	2602.7
25°	2529.6
27.5°	2430.5
30°	2289.7
32.5°	2088.8
35°	1799.4
37.5°	1382.1
40°	991.0
42.5°	743.2
45°	605.0
47.5°	513.7
50°	433.0
52.5°	354.7
55°	284.3
57.5°	224.3
60°	172.2
62.5°	130.3
65°	88.7
67.5°	52.1
70°	31.3
72.5°	18.2
75°	10.4
77.5°	7.8
80°	5.3
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)