

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: P584460

Luminaire Tested: **HC835D010-HM82555930-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555930-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3471.3 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

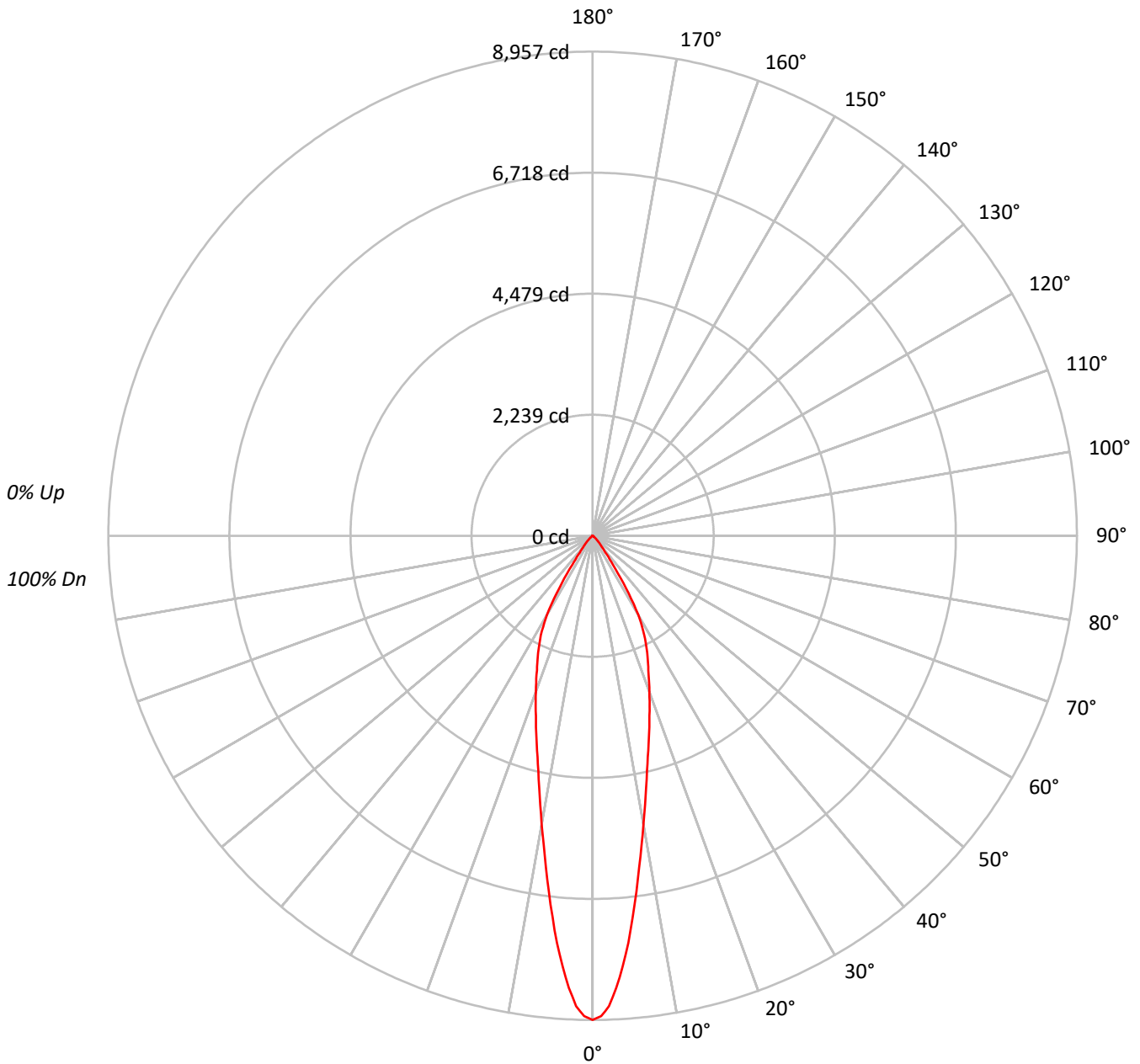
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95				95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89				89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84				84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80				80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75				75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72				72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68				68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65				65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62				62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59				59

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

	0°
0°	276204
5°	234001
10°	169777
15°	127498
20°	100602
25°	81147
30°	60133
35°	24363
40°	10277
45°	5512
50°	2471
55°	1247
60°	796
65°	569
70°	469
75°	310
80°	462
85°	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	649.1	18.7
10°-20°	1121.7	32.3
20°-30°	1084.5	31.2
30°-40°	476.3	13.7
40°-50°	103.0	3.0
50°-60°	23.1	0.7
60°-70°	8.0	0.2
70°-80°	3.1	0.1
80°-90°	2.5	0.1
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°	2855.3	82.3
0°-40°	3331.7	96.0
0°-60°	3457.8	99.6
0°-90°	3471.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3471.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8957	
5°	7560	649
15°	3994	1122
25°	2385	1085
35°	647	476
45°	126	103
55°	23	23
65°	8	8
75°	3	3
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8957.1
1°	8890.0
2°	8706.9
3°	8377.0
4°	7982.5
5°	7559.6
6°	7098.2
7°	6634.0
8°	6198.3
9°	5793.5
10°	5422.1
11°	5071.6
12°	4757.0
13°	4470.8
14°	4218.2
15°	3993.8
17.5°	3491.1
20°	3065.7
22.5°	2691.8
25°	2385.0
27.5°	2073.0
30°	1688.8
32.5°	1147.3
35°	647.2
37.5°	381.6
40°	255.3
42.5°	180.5
45°	126.4
47.5°	82.5
50°	51.5
52.5°	30.9
55°	23.2
57.5°	18.1
60°	12.9
62.5°	10.3
65°	7.8
67.5°	5.2
70°	5.2
72.5°	2.6
75°	2.6
77.5°	2.6
80°	2.6
82.5°	2.6



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		2.6
87.5°		2.6



(END OF REPORT)