

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: P584703

Luminaire Tested: **HC845D010-HM82555840-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584703  
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: HC845D010-HM82555840-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5530.4 lumens  
Efficiency: N/A  
Efficacy: 125.7 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

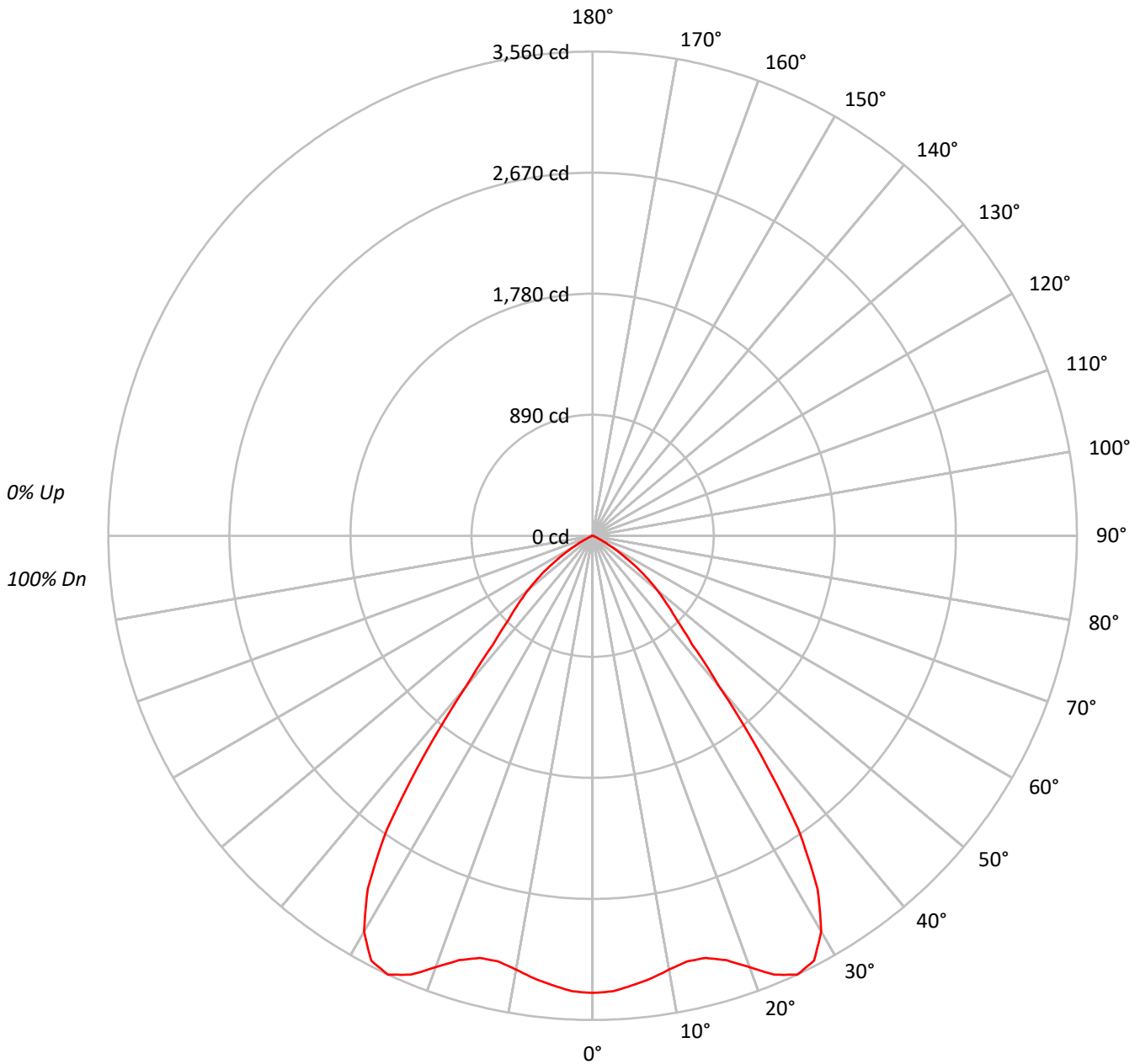
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	103622
5°	102761
10°	101410
15°	102563
20°	110758
25°	121119
30°	119653
35°	99256
40°	58417
45°	38167
50°	29580
55°	19655
60°	9565
65°	2962
70°	992
75°	882
80°	639
85°	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.4	5.7
10°-20°	923.0	16.7
20°-30°	1613.8	29.2
30°-40°	1569.8	28.4
40°-50°	713.9	12.9
50°-60°	331.0	6.0
60°-70°	55.4	1.0
70°-80°	6.8	0.1
80°-90°	2.4	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°	2851.1	51.6
0°-40°	4420.9	79.9
0°-60°	5465.8	98.8
0°-90°	5530.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5530.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3360	
5°	3320	314
15°	3213	923
25°	3560	1614
35°	2637	1570
45°	875	714
55°	366	331
65°	41	55
75°	7	7
85°	4	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3360.4
2.5°	3353.0
5°	3319.8
7.5°	3282.9
10°	3238.7
12.5°	3205.3
15°	3212.7
17.5°	3271.8
20°	3375.2
22.5°	3493.4
25°	3559.8
27.5°	3523.0
30°	3360.4
32.5°	3076.1
35°	2636.7
37.5°	2031.0
40°	1451.2
42.5°	1082.0
45°	875.2
47.5°	738.5
50°	616.6
52.5°	491.1
55°	365.6
57.5°	251.1
60°	155.1
62.5°	84.9
65°	40.6
67.5°	18.4
70°	11.0
72.5°	7.4
75°	7.4
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)