

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: P593839

Luminaire Tested: **HC855D010-HM82555950-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593839  
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: HC855D010-HM82555950-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5803.7 lumens  
Efficiency: N/A  
Efficacy: 111.6 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

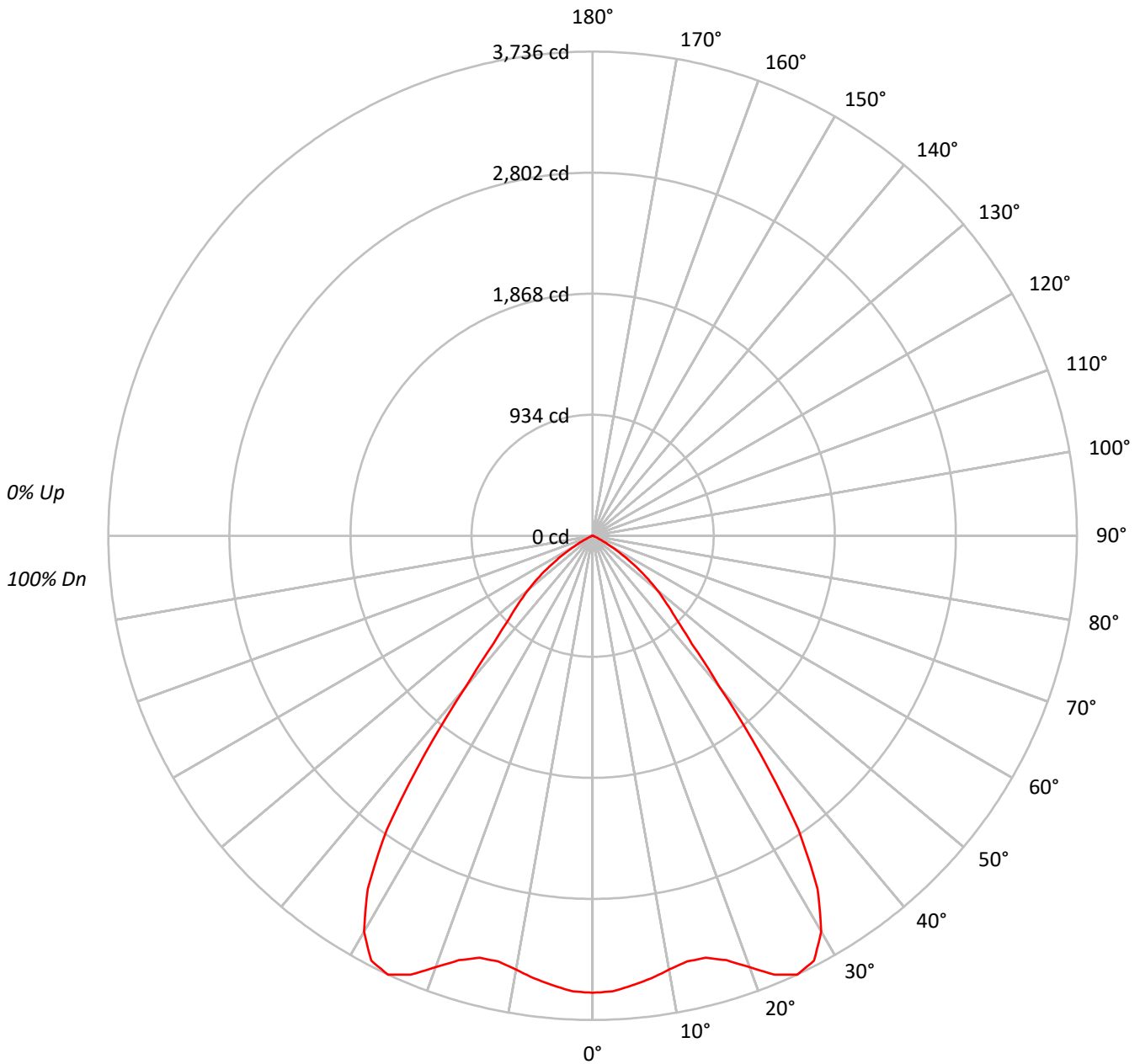
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				68
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62				62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40				40

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

	0°
0°	108741
5°	107838
10°	106417
15°	107629
20°	116229
25°	127100
30°	125563
35°	104158
40°	61303
45°	40051
50°	31048
55°	20623
60°	10040
65°	3116
70°	1046
75°	917
80°	693
85°	1380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.9	5.7
10°-20°	968.6	16.7
20°-30°	1693.5	29.2
30°-40°	1647.3	28.4
40°-50°	749.1	12.9
50°-60°	347.4	6.0
60°-70°	58.2	1.0
70°-80°	7.1	0.1
80°-90°	2.7	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°	2992.0	51.6
0°-40°	4639.3	79.9
0°-60°	5735.7	98.8
0°-90°	5803.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5803.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3526	
5°	3484	330
15°	3371	969
25°	3736	1693
35°	2767	1647
45°	918	749
55°	384	347
65°	43	58
75°	8	7
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3526.4
2.5°	3518.7
5°	3483.8
7.5°	3445.0
10°	3398.6
12.5°	3363.6
15°	3371.4
17.5°	3433.4
20°	3541.9
22.5°	3665.9
25°	3735.6
27.5°	3697.0
30°	3526.4
32.5°	3228.0
35°	2766.9
37.5°	2131.3
40°	1522.9
42.5°	1135.4
45°	918.4
47.5°	775.0
50°	647.2
52.5°	515.4
55°	383.6
57.5°	263.5
60°	162.8
62.5°	89.1
65°	42.7
67.5°	19.3
70°	11.6
72.5°	7.7
75°	7.7
77.5°	3.9
80°	3.9
82.5°	3.9
85°	3.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)