

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: P593848

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555950-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5187.8 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

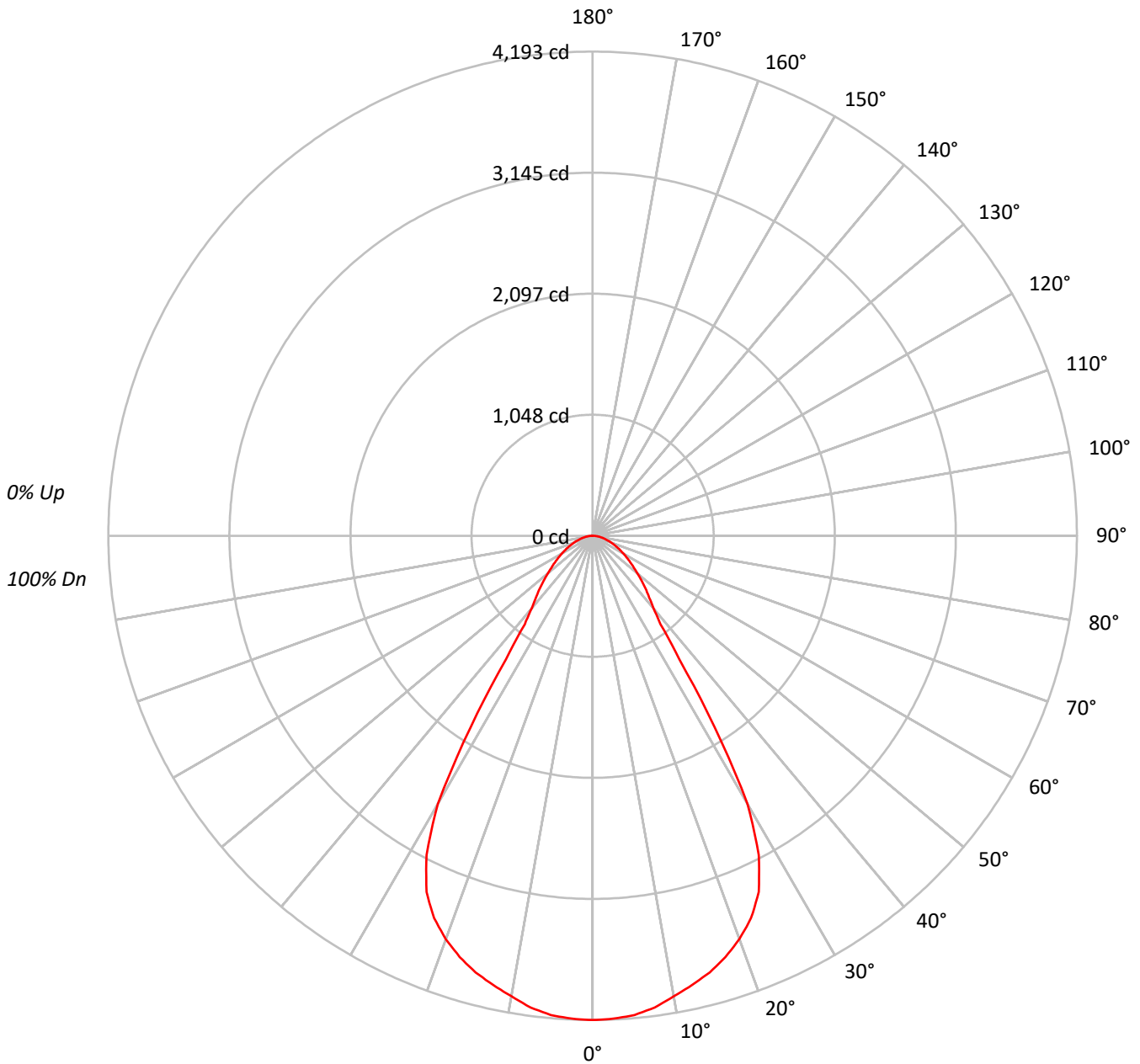
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									20									
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	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	101	102	100	98	98	96	95	95	93	92	90																												
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81																												
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																												
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67																												
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																												
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																												
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52																												
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																												
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																												
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																												

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

	0°
0°	129306
5°	128961
10°	126814
15°	124964
20°	121961
25°	115777
30°	95494
35°	49167
40°	32916
45°	28224
50°	24356
55°	21252
60°	18878
65°	16964
70°	15372
75°	13856
80°	12377
85°	12348



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.9	7.6
10°-20°	1101.3	21.2
20°-30°	1525.9	29.4
30°-40°	916.5	17.7
40°-50°	501.8	9.7
50°-60°	356.4	6.9
60°-70°	231.4	4.5
70°-80°	123.7	2.4
80°-90°	36.9	0.7
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°	3021.1	58.2
0°-40°	3937.6	75.9
0°-60°	4795.8	92.4
0°-90°	5187.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5187.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4193	
5°	4166	394
15°	3914	1101
25°	3403	1526
35°	1306	917
45°	647	502
55°	395	356
65°	232	231
75°	116	124
85°	35	37
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4193.3
2.5°	4185.6
5°	4166.2
7.5°	4119.7
10°	4050.0
12.5°	3984.1
15°	3914.4
17.5°	3825.2
20°	3716.6
22.5°	3584.9
25°	3402.8
27.5°	3116.0
30°	2681.9
32.5°	1964.9
35°	1306.1
37.5°	965.0
40°	817.7
42.5°	724.8
45°	647.2
47.5°	573.6
50°	507.7
52.5°	445.7
55°	395.3
57.5°	348.8
60°	306.1
62.5°	267.5
65°	232.5
67.5°	197.6
70°	170.5
72.5°	139.5
75°	116.3
77.5°	93.1
80°	69.7
82.5°	50.4
85°	34.9
87.5°	15.5
90°	0.0



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— 0°-180°







(END OF REPORT)