

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: P584988

Luminaire Tested: **HC855D010-HM82555927-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584988  
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-HM82555927-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3920.2 lumens  
Efficiency: N/A  
Efficacy: 75.4 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

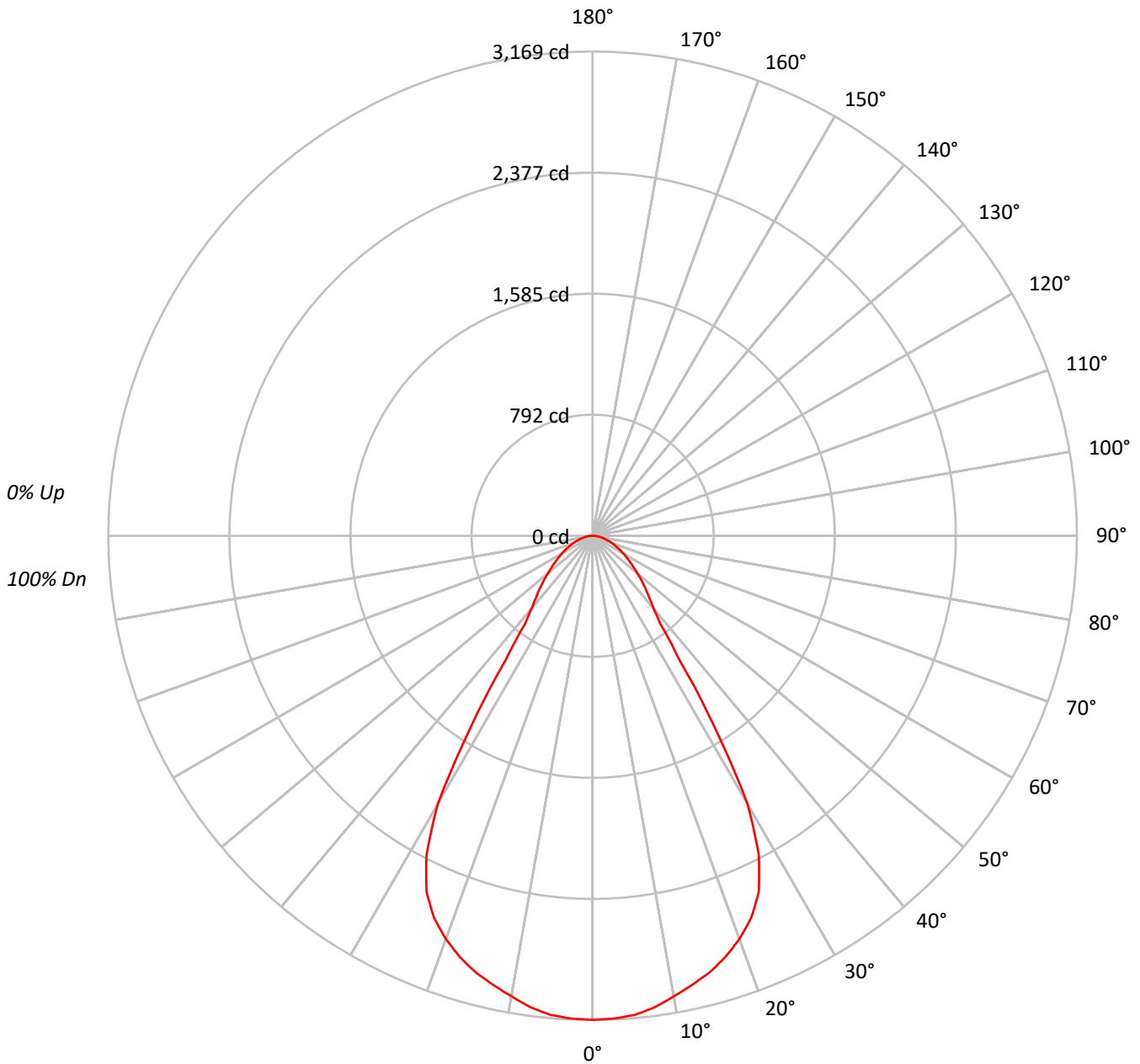
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																	
RC	80									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	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°	97711
5°	97450
10°	95824
15°	94428
20°	92162
25°	87486
30°	72161
35°	37151
40°	24873
45°	21329
50°	18402
55°	16059
60°	14271
65°	12820
70°	11613
75°	10473
80°	9358
85°	9341



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.7	7.6
10°-20°	832.2	21.2
20°-30°	1153.0	29.4
30°-40°	692.6	17.7
40°-50°	379.1	9.7
50°-60°	269.3	6.9
60°-70°	174.8	4.5
70°-80°	93.5	2.4
80°-90°	27.9	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°	2282.9	58.2
0°-40°	2975.5	75.9
0°-60°	3624.0	92.4
0°-90°	3920.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3169	
5°	3148	298
15°	2958	832
25°	2571	1153
35°	987	693
45°	489	379
55°	299	269
65°	176	175
75°	88	93
85°	26	28
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3168.7
2.5°	3162.9
5°	3148.2
7.5°	3113.1
10°	3060.3
12.5°	3010.6
15°	2957.9
17.5°	2890.5
20°	2808.5
22.5°	2709.0
25°	2571.3
27.5°	2354.5
30°	2026.6
32.5°	1484.8
35°	986.9
37.5°	729.2
40°	617.9
42.5°	547.7
45°	489.1
47.5°	433.4
50°	383.6
52.5°	336.8
55°	298.7
57.5°	263.6
60°	231.4
62.5°	202.1
65°	175.7
67.5°	149.3
70°	128.8
72.5°	105.5
75°	87.9
77.5°	70.3
80°	52.7
82.5°	38.1
85°	26.4
87.5°	11.7
90°	0.0



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— 0°-180°







(END OF REPORT)