

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: P584915

Luminaire Tested: **HC855D010-HM82555827-81MDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555827-81MDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5867.7 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

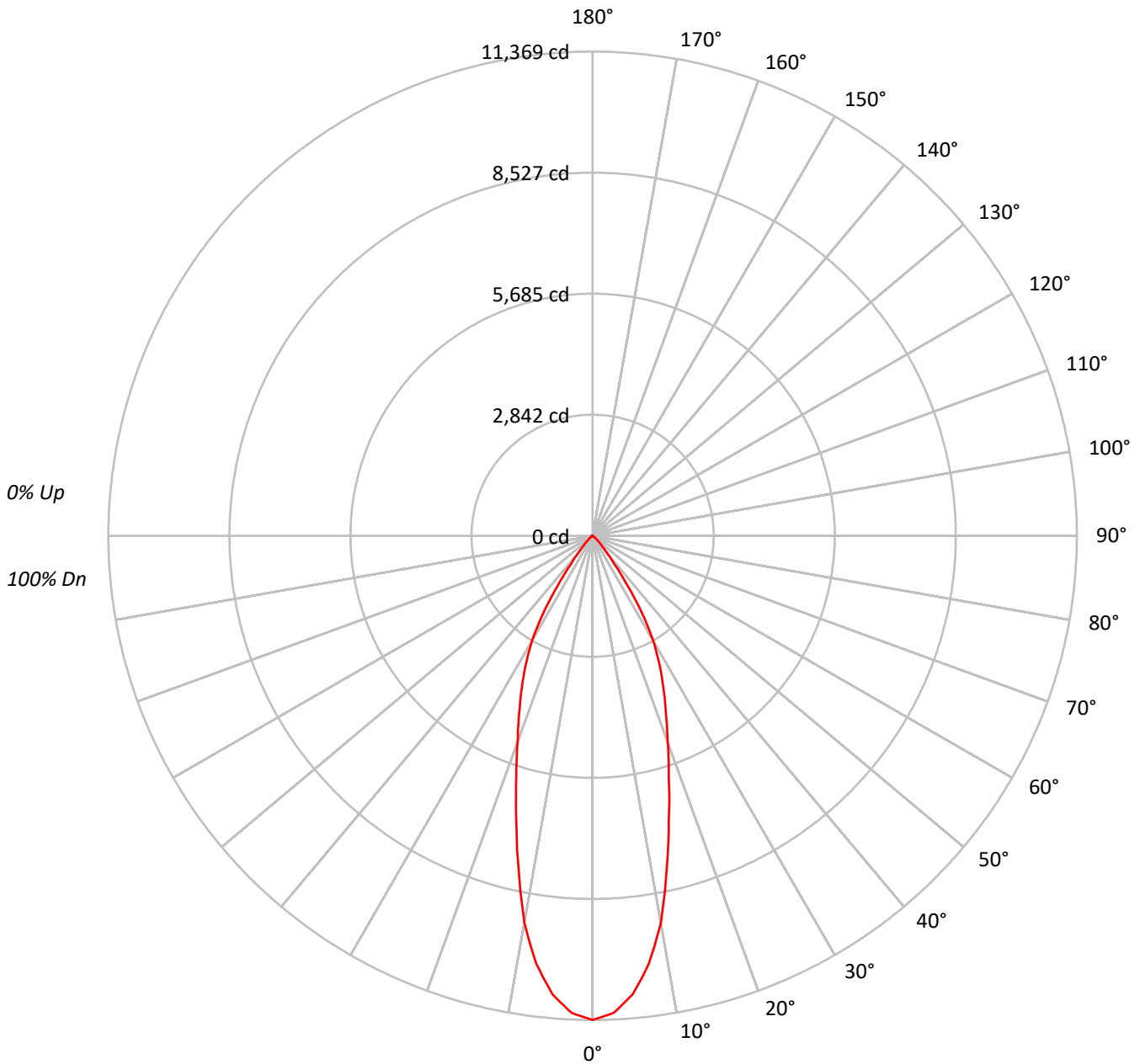
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	111	109	107	112	109	107	105	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	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84			84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75			75
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71			71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67			67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			61
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58			58

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

	0°
0°	350587
5°	334502
10°	288800
15°	220835
20°	168969
25°	133681
30°	100981
35°	53718
40°	20465
45°	9816
50°	4183
55°	1758
60°	672
65°	533
70°	325
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.0	16.7
10°-20°	1931.1	32.9
20°-30°	1798.5	30.7
30°-40°	928.0	15.8
40°-50°	189.0	3.2
50°-60°	32.4	0.6
60°-70°	6.3	0.1
70°-80°	1.4	0.0
80°-90°	0.0	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°	4710.6	80.3
0°-40°	5638.7	96.1
0°-60°	5860.0	99.9
0°-90°	5867.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5867.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11369	
5°	10806	981
15°	6918	1931
25°	3929	1799
35°	1427	928
45°	225	189
55°	33	32
65°	7	6
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11369.3
2.5°	11216.9
5°	10806.4
7.5°	10131.1
10°	9223.3
12.5°	8032.2
15°	6917.5
17.5°	5951.5
20°	5149.1
22.5°	4495.4
25°	3929.0
27.5°	3391.5
30°	2836.0
32.5°	2175.1
35°	1427.0
37.5°	827.9
40°	508.4
42.5°	334.0
45°	225.1
47.5°	141.6
50°	87.2
52.5°	50.9
55°	32.7
57.5°	14.5
60°	10.9
62.5°	7.3
65°	7.3
67.5°	3.6
70°	3.6
72.5°	3.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)