

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: P593844

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593844  
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-HM82555950-81MDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6260.9 lumens  
Efficiency: N/A  
Efficacy: 120.4 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

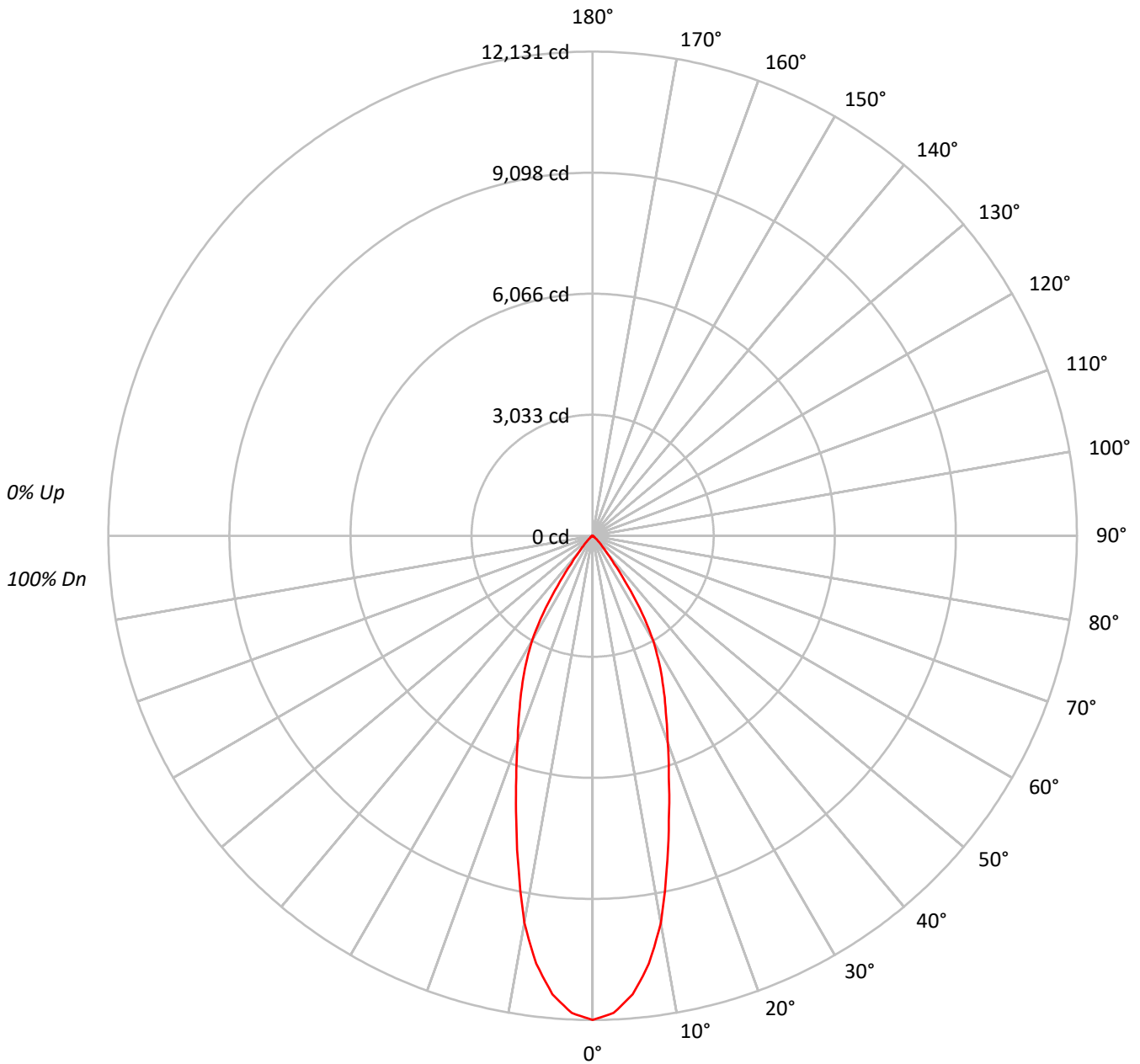
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58

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

	0°
0°	374078
5°	356919
10°	308151
15°	235632
20°	180291
25°	142636
30°	107746
35°	57321
40°	21834
45°	10479
50°	4457
55°	1876
60°	715
65°	562
70°	352
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1046.7	16.7
10°-20°	2060.5	32.9
20°-30°	1919.0	30.7
30°-40°	990.2	15.8
40°-50°	201.7	3.2
50°-60°	34.5	0.6
60°-70°	6.7	0.1
70°-80°	1.5	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°	5026.3	80.3
0°-40°	6016.5	96.1
0°-60°	6252.7	99.9
0°-90°	6260.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6260.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12131	
5°	11531	###
15°	7381	2061
25°	4192	1919
35°	1523	990
45°	240	202
55°	35	35
65°	8	7
75°	0	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	12131.1
2.5°	11968.5
5°	11530.6
7.5°	10809.9
10°	9841.3
12.5°	8570.5
15°	7381.0
17.5°	6350.4
20°	5494.1
22.5°	4796.6
25°	4192.2
27.5°	3618.8
30°	3026.0
32.5°	2320.8
35°	1522.7
37.5°	883.5
40°	542.4
42.5°	356.4
45°	240.3
47.5°	151.1
50°	92.9
52.5°	54.3
55°	34.9
57.5°	15.5
60°	11.6
62.5°	7.7
65°	7.7
67.5°	3.9
70°	3.9
72.5°	3.9
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)