

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: P584916

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555827-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5363.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

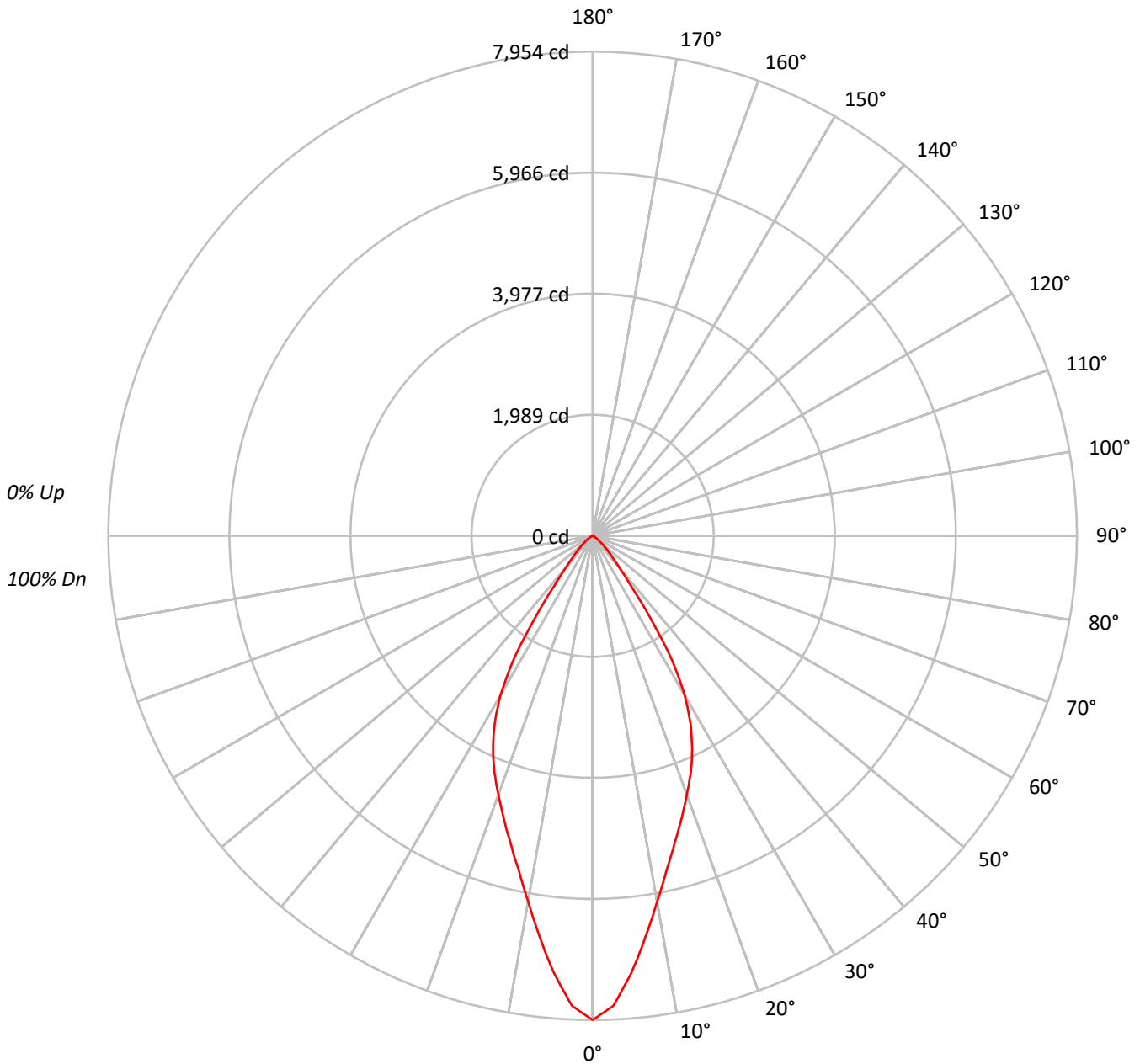
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																	
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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																											
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87																											
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81																											
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																											
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71																											
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66																											
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62																											
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58																											
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55																											
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52																											

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

	0°
0°	245266
5°	223504
10°	190963
15°	166535
20°	148430
25°	131666
30°	107803
35°	61902
40°	27473
45°	15987
50°	9230
55°	5269
60°	2911
65°	1853
70°	1307
75°	870
80°	639
85°	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.6	12.2
10°-20°	1466.4	27.3
20°-30°	1755.2	32.7
30°-40°	1061.8	19.8
40°-50°	297.6	5.5
50°-60°	92.4	1.7
60°-70°	26.4	0.5
70°-80°	7.2	0.1
80°-90°	2.4	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°	3875.2	72.3
0°-40°	4937.0	92.1
0°-60°	5327.0	99.3
0°-90°	5363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7954	
5°	7220	654
15°	5217	1466
25°	3870	1755
35°	1644	1062
45°	367	298
55°	98	92
65°	25	26
75°	7	7
85°	4	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7953.8
2.5°	7728.6
5°	7220.5
7.5°	6646.9
10°	6098.7
12.5°	5619.5
15°	5216.6
17.5°	4860.9
20°	4523.2
22.5°	4211.0
25°	3869.8
27.5°	3484.9
30°	3027.6
32.5°	2435.9
35°	1644.4
37.5°	1023.7
40°	682.5
42.5°	490.1
45°	366.6
47.5°	268.6
50°	192.4
52.5°	134.3
55°	98.0
57.5°	65.4
60°	47.2
62.5°	32.7
65°	25.4
67.5°	18.2
70°	14.5
72.5°	7.3
75°	7.3
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)