

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: P584950

Luminaire Tested: **HC855D010-HM82555835-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584950
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-HM82555835-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

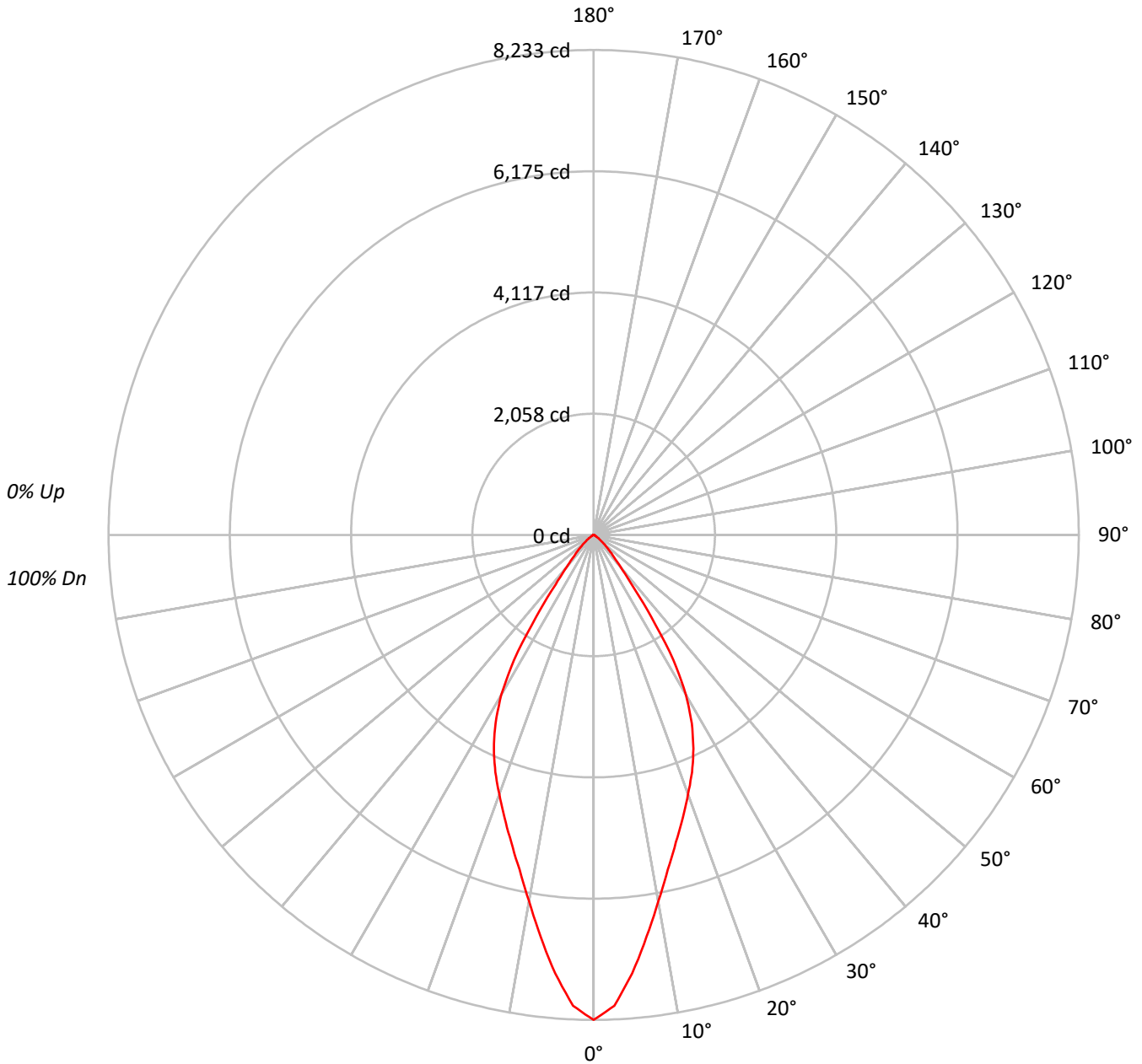
Lumens per Lamp: N/A
Luminaire Lumens: 5551.4 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): 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			
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°	253878
5°	231354
10°	197670
15°	172384
20°	153641
25°	136290
30°	111588
35°	64078
40°	28439
45°	16550
50°	9551
55°	5457
60°	3016
65°	1919
70°	1352
75°	894
80°	675
85°	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.5	12.2
10°-20°	1517.8	27.3
20°-30°	1816.9	32.7
30°-40°	1099.1	19.8
40°-50°	308.0	5.5
50°-60°	95.6	1.7
60°-70°	27.3	0.5
70°-80°	7.4	0.1
80°-90°	2.6	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°	4011.3	72.3
0°-40°	5110.4	92.1
0°-60°	5514.1	99.3
0°-90°	5551.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5551.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8233	
5°	7474	677
15°	5400	1518
25°	4006	1817
35°	1702	1099
45°	380	308
55°	102	96
65°	26	27
75°	8	7
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8233.1
2.5°	8000.1
5°	7474.1
7.5°	6880.3
10°	6312.9
12.5°	5816.9
15°	5399.8
17.5°	5031.5
20°	4682.0
22.5°	4358.9
25°	4005.7
27.5°	3607.4
30°	3133.9
32.5°	2521.4
35°	1702.2
37.5°	1059.7
40°	706.5
42.5°	507.2
45°	379.5
47.5°	278.1
50°	199.1
52.5°	139.0
55°	101.5
57.5°	67.6
60°	48.9
62.5°	33.9
65°	26.3
67.5°	18.8
70°	15.0
72.5°	7.5
75°	7.5
77.5°	3.8
80°	3.8
82.5°	3.8
85°	3.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)