

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: P584712

Luminaire Tested: **HC845D010-HM82555927-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584712  
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: HC845D010-HM82555927-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3921.9 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

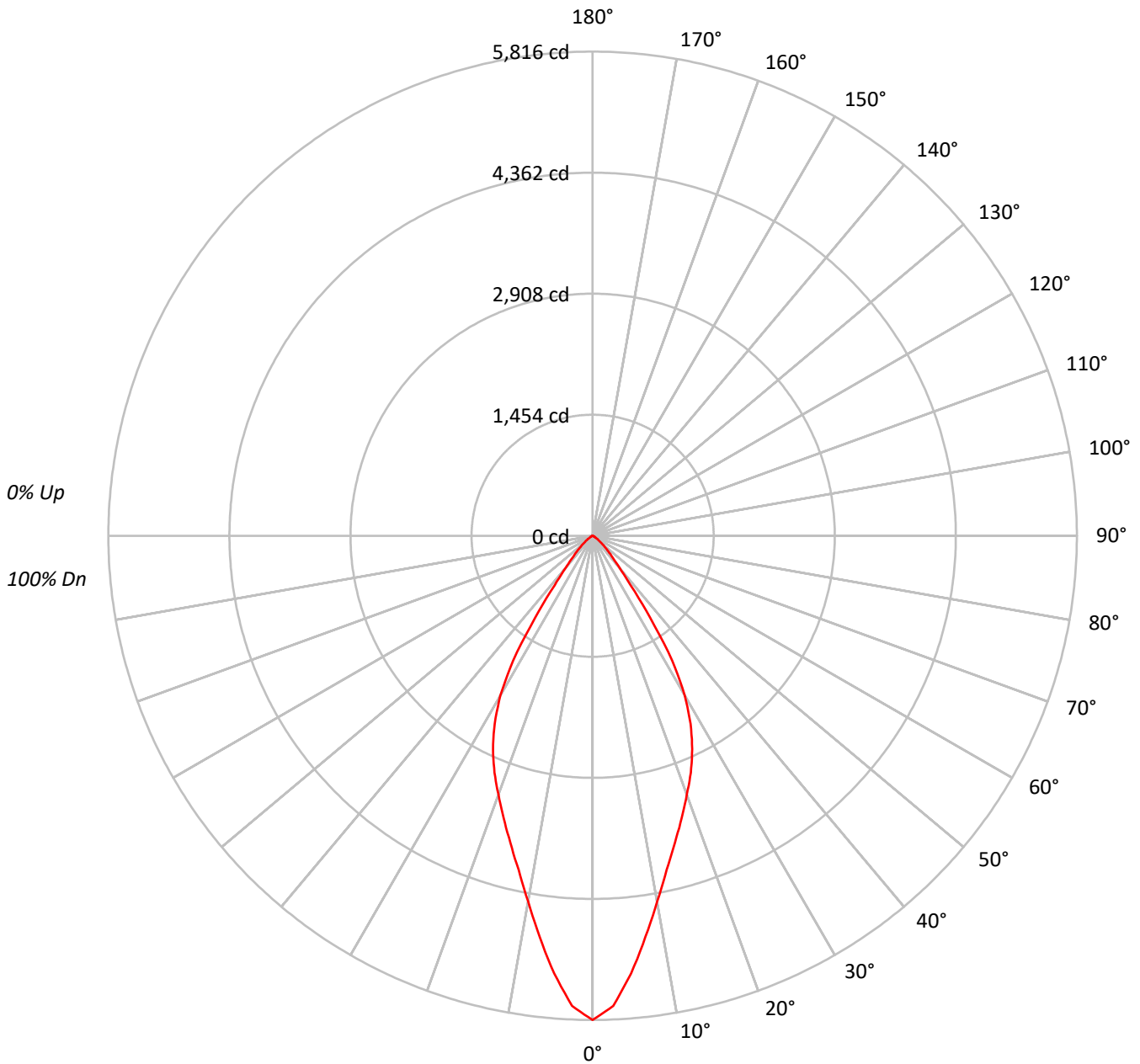
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	179356
5°	163447
10°	139648
15°	121784
20°	108543
25°	96285
30°	78833
35°	45271
40°	20091
45°	11692
50°	6745
55°	3855
60°	2128
65°	1350
70°	965
75°	631
80°	479
85°	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.0	12.2
10°-20°	1072.3	27.3
20°-30°	1283.6	32.7
30°-40°	776.5	19.8
40°-50°	217.6	5.5
50°-60°	67.5	1.7
60°-70°	19.3	0.5
70°-80°	5.3	0.1
80°-90°	1.8	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°	2833.8	72.3
0°-40°	3610.4	92.1
0°-60°	3895.5	99.3
0°-90°	3921.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3921.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5816	
5°	5280	478
15°	3815	1072
25°	2830	1284
35°	1203	777
45°	268	218
55°	72	68
65°	18	19
75°	5	5
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5816.4
2.5°	5651.9
5°	5280.3
7.5°	4860.8
10°	4459.9
12.5°	4109.5
15°	3814.8
17.5°	3554.7
20°	3307.7
22.5°	3079.5
25°	2829.9
27.5°	2548.5
30°	2214.0
32.5°	1781.3
35°	1202.6
37.5°	748.6
40°	499.1
42.5°	358.4
45°	268.1
47.5°	196.5
50°	140.6
52.5°	98.2
55°	71.7
57.5°	47.7
60°	34.5
62.5°	23.9
65°	18.5
67.5°	13.3
70°	10.7
72.5°	5.3
75°	5.3
77.5°	2.7
80°	2.7
82.5°	2.7
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)