

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: P580786

Luminaire Tested: **HC445D010-HM44560930-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC445D010-HM44560930-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3624.3 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

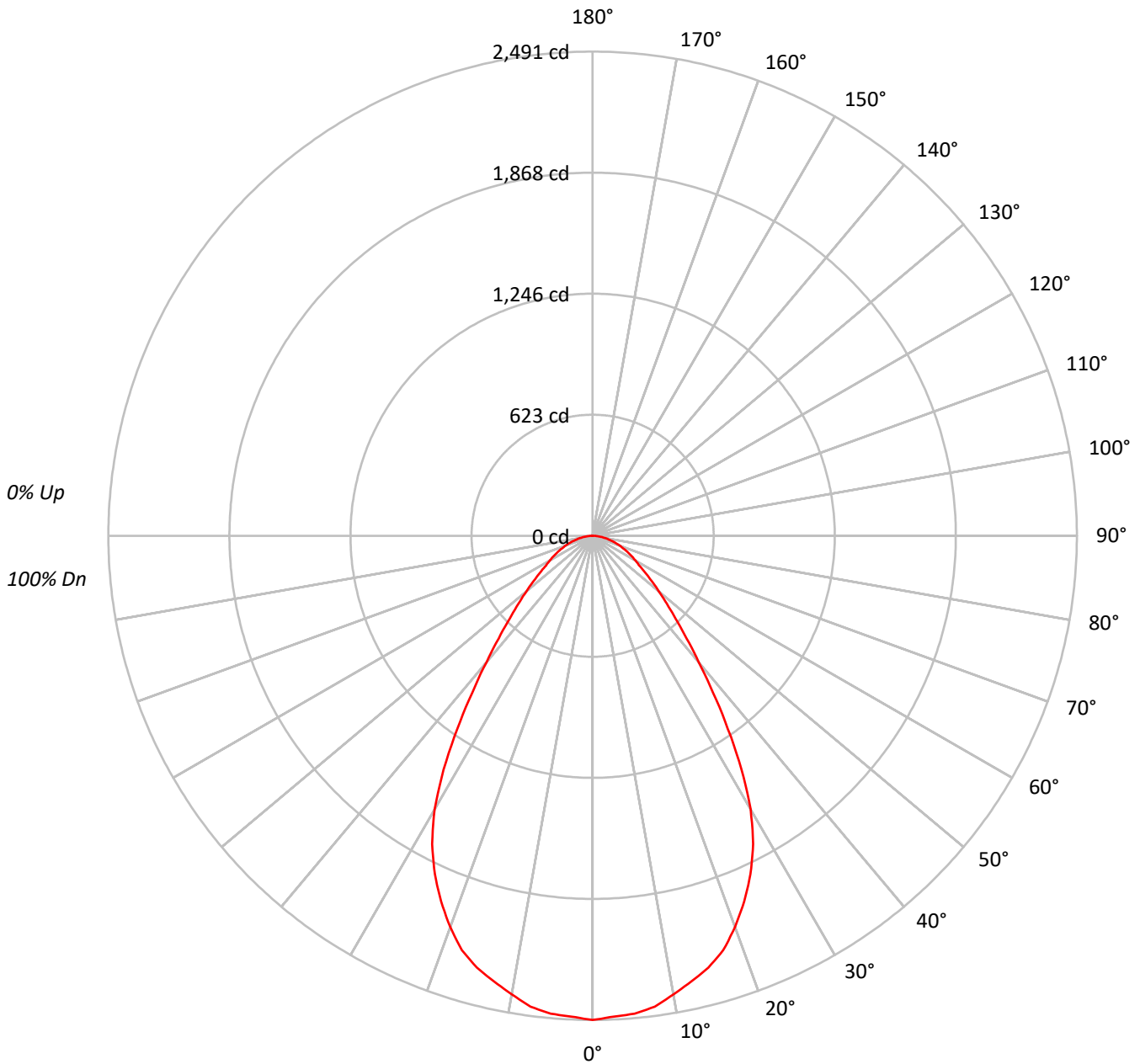
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	307266
5°	305642
10°	300058
15°	293728
20°	281163
25°	261456
30°	231416
35°	182635
40°	136671
45°	105133
50°	85277
55°	70750
60°	62586
65°	57905
70°	53411
75°	49087
80°	44608
85°	35522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.4	6.4
10°-20°	645.1	17.8
20°-30°	875.9	24.2
30°-40°	758.7	20.9
40°-50°	476.4	13.1
50°-60°	299.7	8.3
60°-70°	196.9	5.4
70°-80°	108.6	3.0
80°-90°	29.7	0.8
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°	1754.3	48.4
0°-40°	2513.1	69.3
0°-60°	3289.2	90.8
0°-90°	3624.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3624.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2491	
5°	2468	233
15°	2300	645
25°	1921	876
35°	1213	759
45°	603	476
55°	329	300
65°	198	197
75°	103	109
85°	25	30
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2491.1
2.5°	2476.0
5°	2468.5
7.5°	2443.4
10°	2395.7
12.5°	2348.0
15°	2300.2
17.5°	2234.9
20°	2142.0
22.5°	2036.5
25°	1921.1
27.5°	1788.0
30°	1624.8
32.5°	1426.4
35°	1212.9
37.5°	1017.0
40°	848.8
42.5°	715.7
45°	602.7
47.5°	517.4
50°	444.4
52.5°	381.7
55°	329.0
57.5°	283.8
60°	253.7
62.5°	226.0
65°	198.4
67.5°	170.8
70°	148.1
72.5°	123.1
75°	103.0
77.5°	80.3
80°	62.8
82.5°	42.6
85°	25.1
87.5°	10.1
90°	0.0



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— 0°-180°







(END OF REPORT)