

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: P592845

Luminaire Tested: **HC445D010-HM44560850-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592845  
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-HM44560850-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4899.6 lumens  
Efficiency: N/A  
Efficacy: 111.4 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

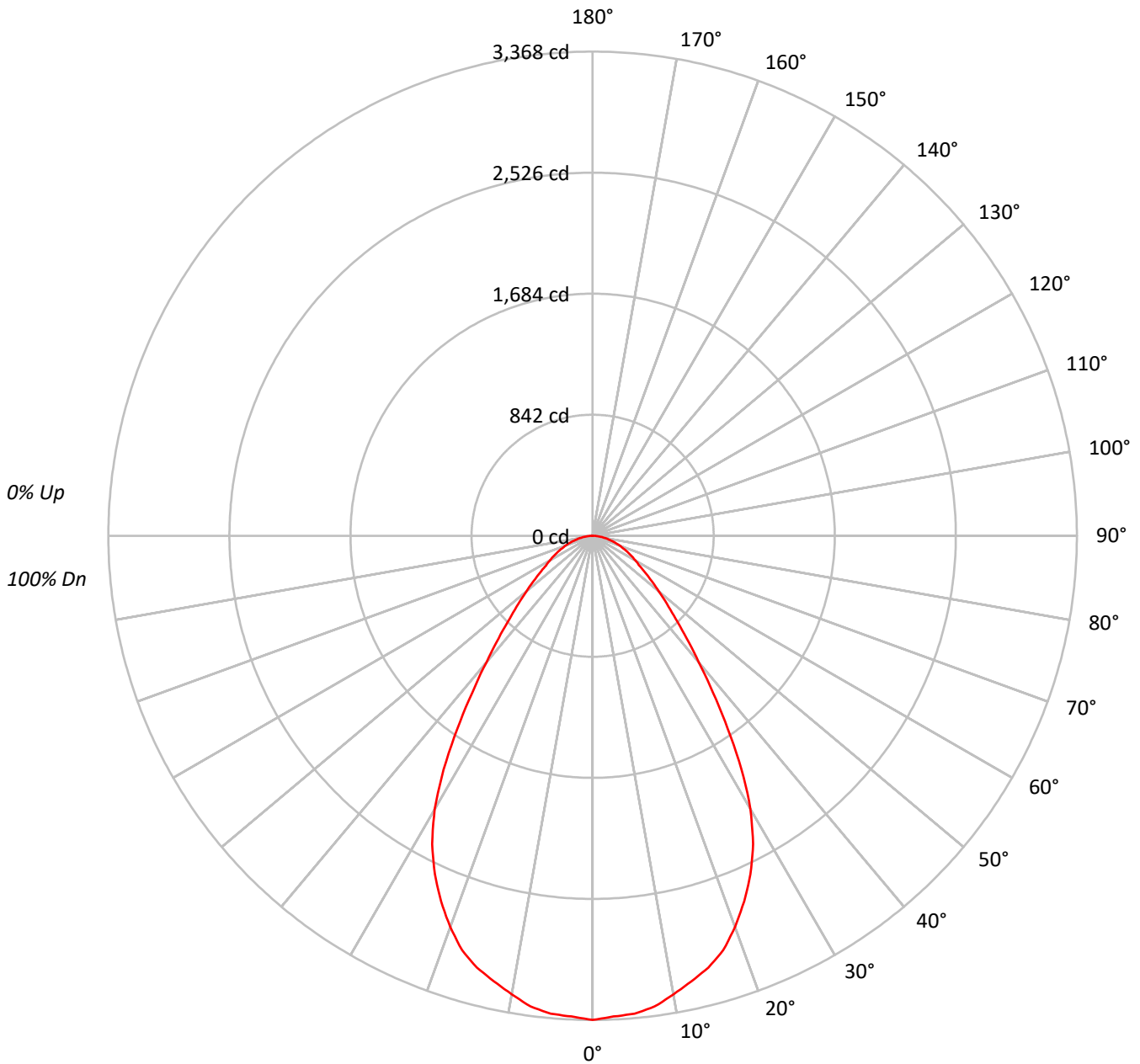
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	415391
5°	413189
10°	405642
15°	397086
20°	380108
25°	353457
30°	312827
35°	246901
40°	184766
45°	142131
50°	115289
55°	95653
60°	84590
65°	78277
70°	72236
75°	66339
80°	60235
85°	48118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.5	6.4
10°-20°	872.1	17.8
20°-30°	1184.1	24.2
30°-40°	1025.7	20.9
40°-50°	644.0	13.1
50°-60°	405.1	8.3
60°-70°	266.1	5.4
70°-80°	146.8	3.0
80°-90°	40.2	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°	2371.7	48.4
0°-40°	3397.4	69.3
0°-60°	4446.5	90.8
0°-90°	4899.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4899.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3368	
5°	3337	315
15°	3110	872
25°	2597	1184
35°	1640	1026
45°	815	644
55°	445	405
65°	268	266
75°	139	147
85°	34	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3367.7
2.5°	3347.3
5°	3337.1
7.5°	3303.2
10°	3238.7
12.5°	3174.1
15°	3109.6
17.5°	3021.4
20°	2895.8
22.5°	2753.2
25°	2597.1
27.5°	2417.1
30°	2196.4
32.5°	1928.3
35°	1639.7
37.5°	1374.9
40°	1147.5
42.5°	967.5
45°	814.8
47.5°	699.3
50°	600.8
52.5°	516.0
55°	444.8
57.5°	383.6
60°	342.9
62.5°	305.5
65°	268.2
67.5°	230.8
70°	200.3
72.5°	166.4
75°	139.2
77.5°	108.6
80°	84.8
82.5°	57.7
85°	34.0
87.5°	13.6
90°	0.0



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— 0°-180°







(END OF REPORT)