

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: P592863

Luminaire Tested: **HC445D010-HM44560950-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592863  
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-HM44560950-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3743.1 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

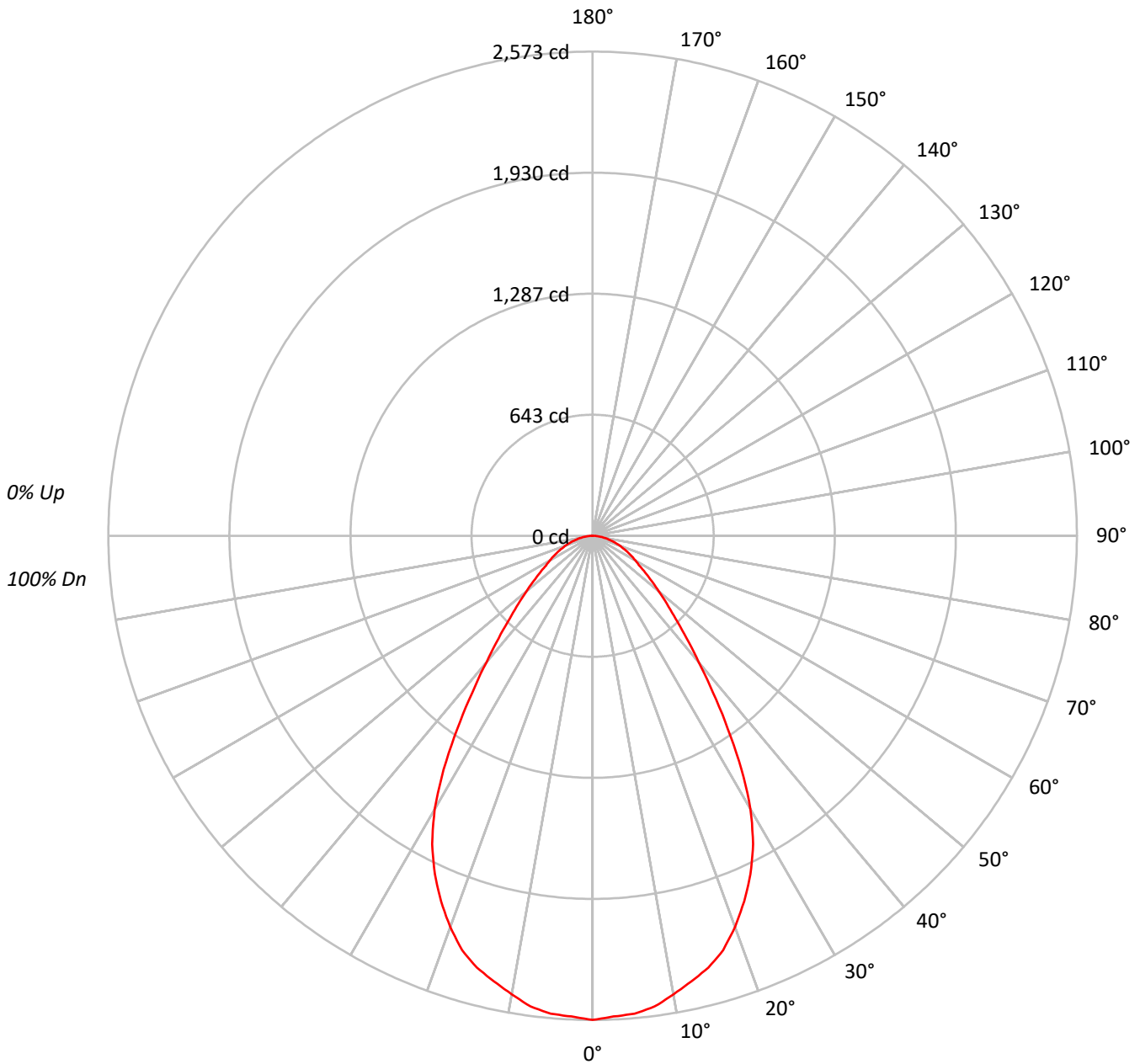
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			

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

	0°
0°	317331
5°	315659
10°	309890
15°	303356
20°	290377
25°	270016
30°	238993
35°	188628
40°	141147
45°	108587
50°	88078
55°	73051
60°	64633
65°	59802
70°	55178
75°	50707
80°	46100
85°	36655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.0	6.4
10°-20°	666.2	17.8
20°-30°	904.6	24.2
30°-40°	783.6	20.9
40°-50°	492.0	13.1
50°-60°	309.5	8.3
60°-70°	203.3	5.4
70°-80°	112.2	3.0
80°-90°	30.7	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°	1811.9	48.4
0°-40°	2595.5	69.3
0°-60°	3397.0	90.8
0°-90°	3743.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2573	
5°	2549	241
15°	2376	666
25°	1984	905
35°	1253	784
45°	622	492
55°	340	309
65°	205	203
75°	106	112
85°	26	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2572.7
2.5°	2557.2
5°	2549.4
7.5°	2523.5
10°	2474.2
12.5°	2425.0
15°	2375.6
17.5°	2308.2
20°	2212.2
22.5°	2103.3
25°	1984.0
27.5°	1846.6
30°	1678.0
32.5°	1473.1
35°	1252.7
37.5°	1050.4
40°	876.6
42.5°	739.2
45°	622.5
47.5°	534.3
50°	459.0
52.5°	394.2
55°	339.7
57.5°	293.1
60°	262.0
62.5°	233.4
65°	204.9
67.5°	176.4
70°	153.0
72.5°	127.1
75°	106.4
77.5°	83.0
80°	64.9
82.5°	44.1
85°	25.9
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)