

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: P580805

Luminaire Tested: **HC445D010-HM44560935-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC445D010-HM44560935-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3594.9 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

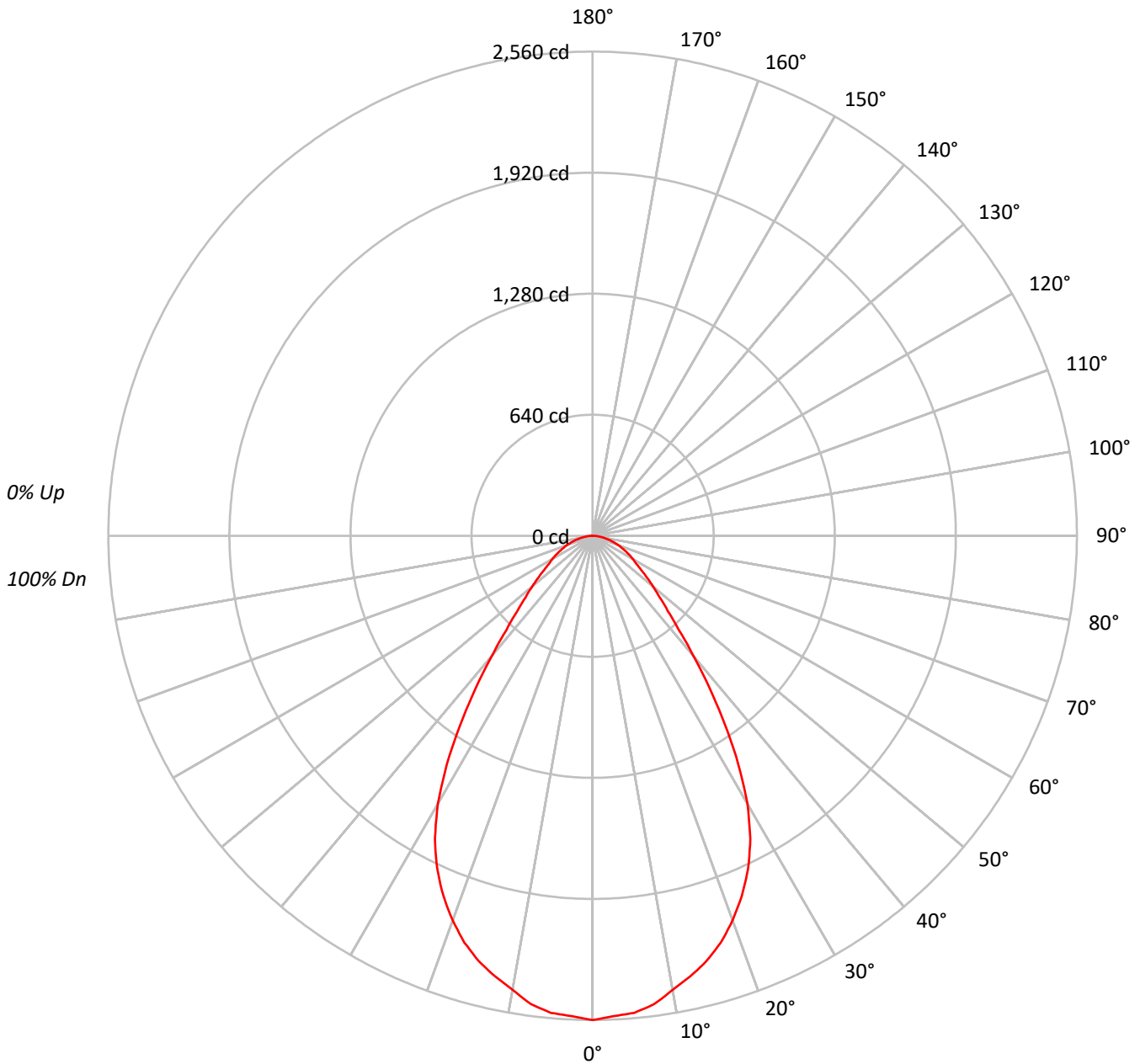
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

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

	0°
0°	315826
5°	313479
10°	305318
15°	297265
20°	283958
25°	264559
30°	232940
35°	183734
40°	133370
45°	97999
50°	79731
55°	66858
60°	60587
65°	55658
70°	51824
75°	47323
80°	42690
85°	36938



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.7	6.6
10°-20°	653.0	18.2
20°-30°	885.1	24.6
30°-40°	759.5	21.1
40°-50°	448.5	12.5
50°-60°	284.2	7.9
60°-70°	190.9	5.3
70°-80°	105.4	2.9
80°-90°	29.5	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°	1776.8	49.4
0°-40°	2536.3	70.6
0°-60°	3269.0	90.9
0°-90°	3594.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3594.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2560	
5°	2532	239
15°	2328	653
25°	1944	885
35°	1220	760
45°	562	449
55°	311	284
65°	191	191
75°	99	105
85°	26	30
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2560.5
2.5°	2542.2
5°	2531.8
7.5°	2497.8
10°	2437.7
12.5°	2385.5
15°	2327.9
17.5°	2254.8
20°	2163.3
22.5°	2061.5
25°	1943.9
27.5°	1805.4
30°	1635.5
32.5°	1434.4
35°	1220.2
37.5°	1013.7
40°	828.3
42.5°	674.1
45°	561.8
47.5°	480.8
50°	415.5
52.5°	360.6
55°	310.9
57.5°	271.7
60°	245.6
62.5°	219.5
65°	190.7
67.5°	167.2
70°	143.7
72.5°	120.2
75°	99.3
77.5°	78.4
80°	60.1
82.5°	41.9
85°	26.1
87.5°	10.4
90°	0.0



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— 0°-180°







(END OF REPORT)