

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: P584717

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC845D010-HM82555927-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3948.4 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

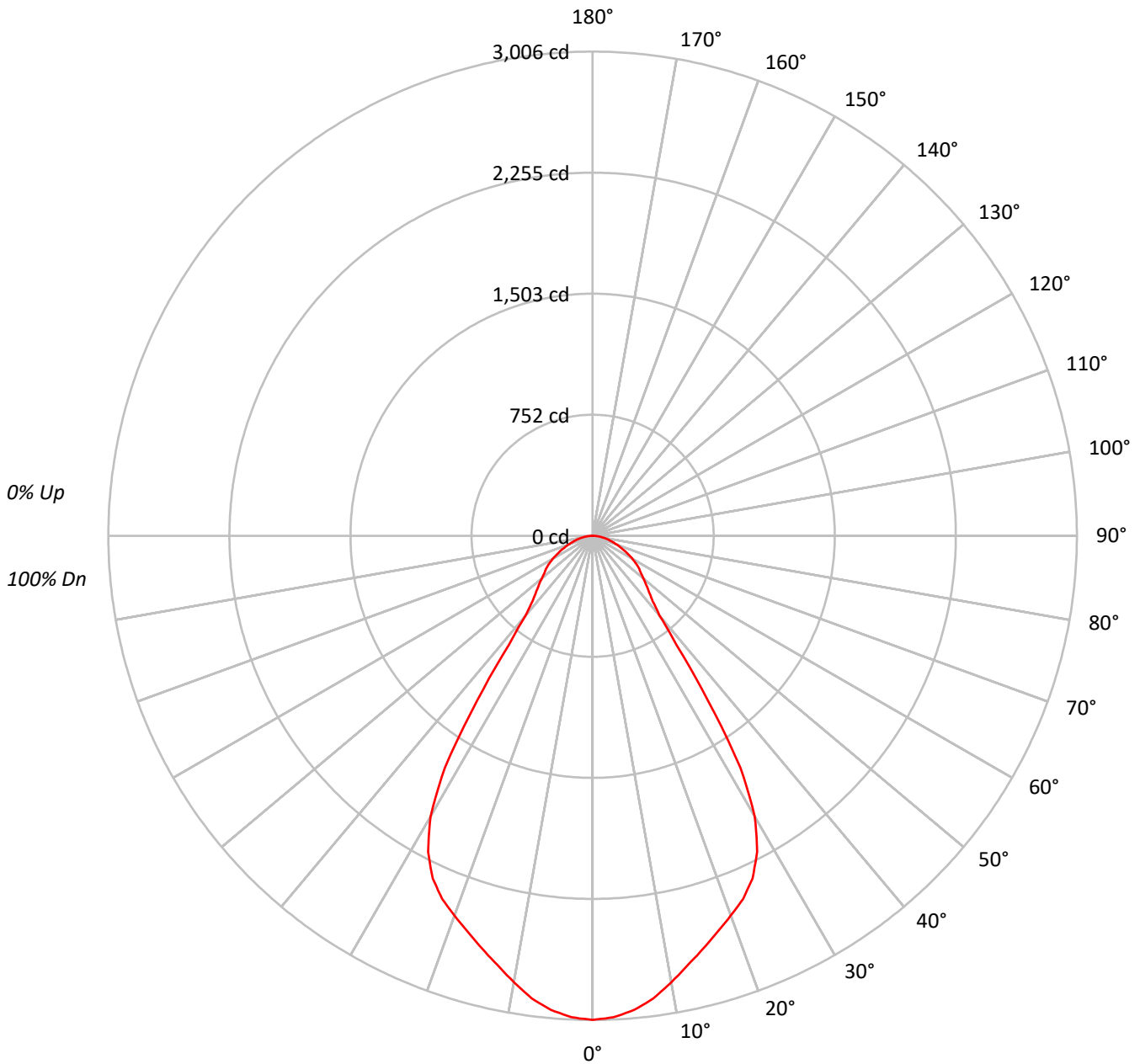
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	92682
5°	91472
10°	88128
15°	84679
20°	82334
25°	79861
30°	71662
35°	46980
40°	25972
45°	21652
50°	19741
55°	18843
60°	17521
65°	15884
70°	14362
75°	12975
80°	11791
85°	11286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.7	7.0
10°-20°	748.3	19.0
20°-30°	1065.0	27.0
30°-40°	788.3	20.0
40°-50°	390.4	9.9
50°-60°	311.6	7.9
60°-70°	216.3	5.5
70°-80°	116.6	3.0
80°-90°	34.3	0.9
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°	2091.0	53.0
0°-40°	2879.3	72.9
0°-60°	3581.2	90.7
0°-90°	3948.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3948.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3006	
5°	2955	278
15°	2652	748
25°	2347	1065
35°	1248	788
45°	496	390
55°	350	312
65°	218	216
75°	109	117
85°	32	34
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3005.6
2.5°	2992.3
5°	2955.1
7.5°	2896.7
10°	2814.5
12.5°	2729.5
15°	2652.5
17.5°	2578.1
20°	2509.0
22.5°	2440.1
25°	2347.2
27.5°	2211.7
30°	2012.6
32.5°	1707.3
35°	1248.0
37.5°	852.3
40°	645.2
42.5°	552.2
45°	496.5
47.5°	451.4
50°	411.5
52.5°	377.0
55°	350.5
57.5°	318.6
60°	284.1
62.5°	249.6
65°	217.7
67.5°	185.8
70°	159.3
72.5°	132.8
75°	108.9
77.5°	87.6
80°	66.4
82.5°	47.7
85°	31.9
87.5°	13.3
90°	0.0



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— 0°-180°







(END OF REPORT)