

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: P584656

Luminaire Tested: **HC845D010-HM82555827-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC845D010-HM82555827-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5424.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

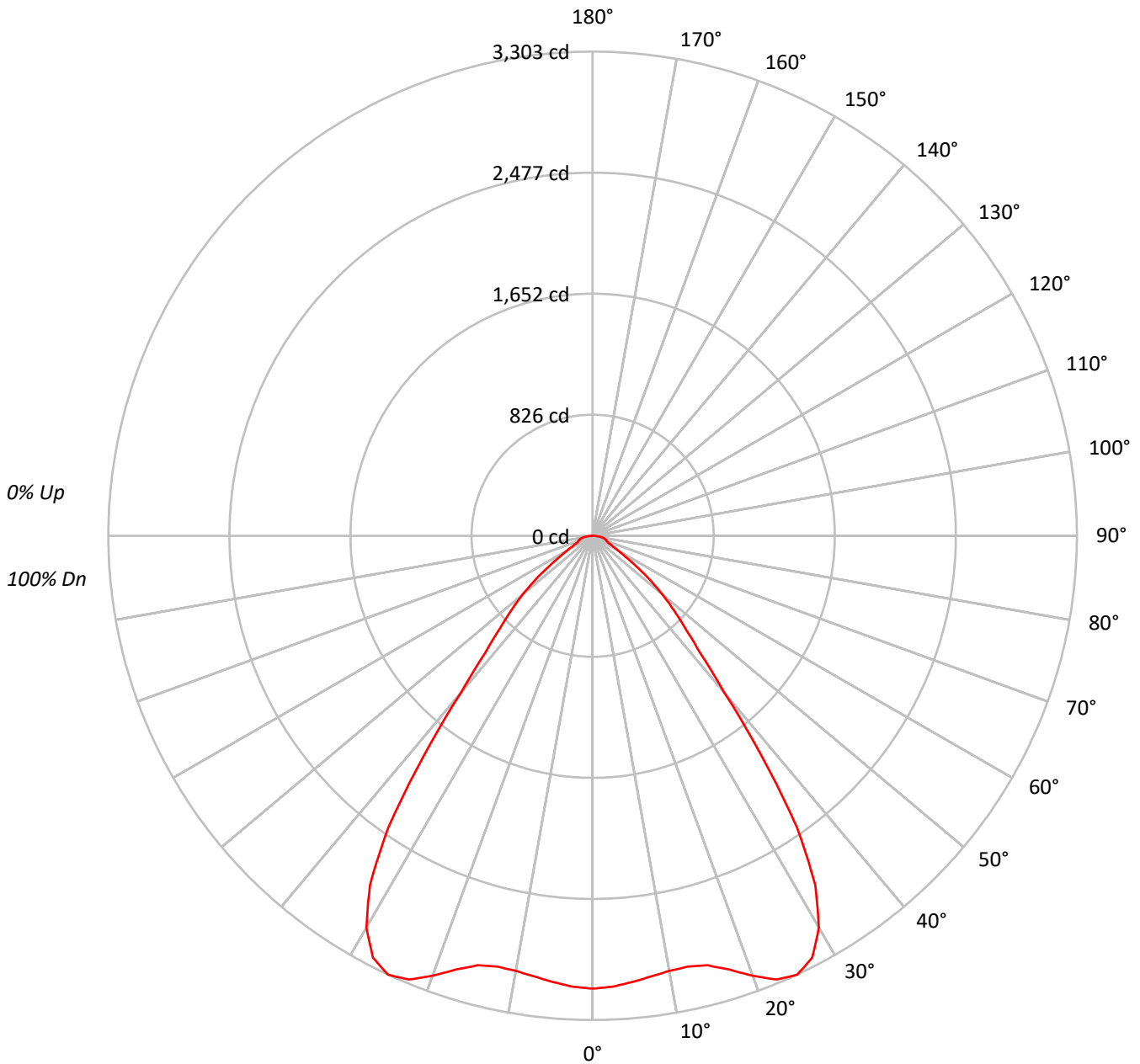
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

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

	0°
0°	95256
5°	94605
10°	94356
15°	96829
20°	104829
25°	112388
30°	109875
35°	91494
40°	56207
45°	38921
50°	29700
55°	19472
60°	12193
65°	9135
70°	9205
75°	10592
80°	11702
85°	10508



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.4	5.4
10°-20°	870.7	16.1
20°-30°	1498.9	27.6
30°-40°	1452.2	26.8
40°-50°	715.3	13.2
50°-60°	337.5	6.2
60°-70°	133.1	2.5
70°-80°	91.8	1.7
80°-90°	34.0	0.6
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°	2660.0	49.0
0°-40°	4112.3	75.8
0°-60°	5165.1	95.2
0°-90°	5424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3089	
5°	3056	290
15°	3033	871
25°	3303	1499
35°	2430	1452
45°	892	715
55°	362	338
65°	125	133
75°	89	92
85°	30	34
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3089.1
2.5°	3079.2
5°	3056.3
7.5°	3033.1
10°	3013.4
12.5°	3010.0
15°	3033.1
17.5°	3102.4
20°	3194.5
22.5°	3276.9
25°	3303.2
27.5°	3243.9
30°	3085.8
32.5°	2825.6
35°	2430.5
37.5°	1887.1
40°	1396.3
42.5°	1083.5
45°	892.5
47.5°	750.8
50°	619.1
52.5°	487.4
55°	362.2
57.5°	263.5
60°	197.7
62.5°	154.8
65°	125.2
67.5°	108.7
70°	102.1
72.5°	95.5
75°	88.9
77.5°	79.1
80°	65.9
82.5°	49.4
85°	29.7
87.5°	13.1
90°	0.0



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— 0°-180°







(END OF REPORT)