

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: P584706

Luminaire Tested: **HC845D010-HM82555840-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC845D010-HM82555840-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5670.9 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

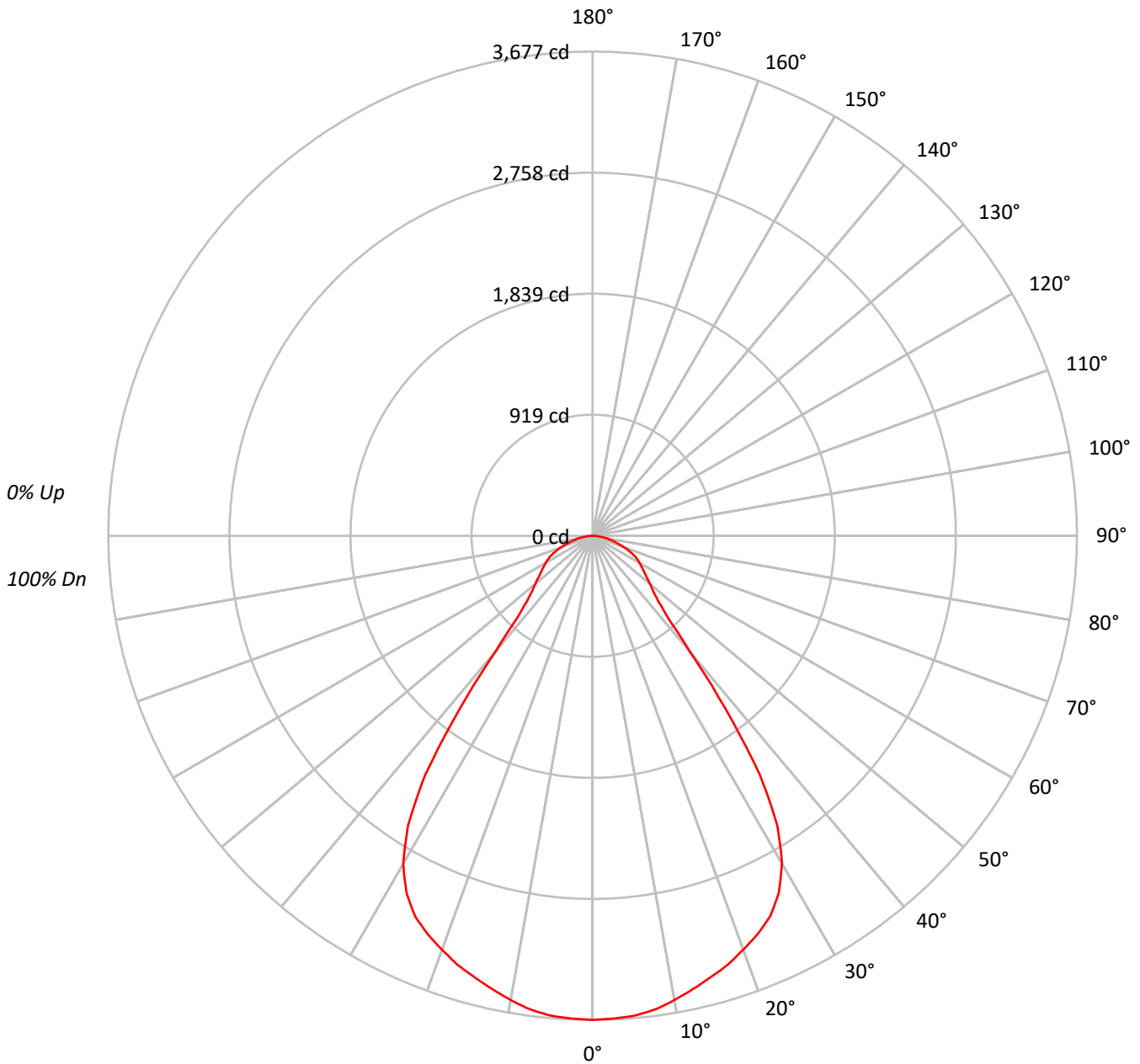
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	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	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	113376
5°	113236
10°	112119
15°	110777
20°	109751
25°	108516
30°	102391
35°	83378
40°	46067
45°	30749
50°	27268
55°	25601
60°	25267
65°	25049
70°	22630
75°	20242
80°	17705
85°	15674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.7	6.1
10°-20°	979.8	17.3
20°-30°	1455.8	25.7
30°-40°	1311.1	23.1
40°-50°	581.2	10.2
50°-60°	430.4	7.6
60°-70°	334.7	5.9
70°-80°	181.5	3.2
80°-90°	49.7	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°	2782.3	49.1
0°-40°	4093.4	72.2
0°-60°	5105.0	90.0
0°-90°	5670.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5670.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3677	
5°	3658	347
15°	3470	980
25°	3189	1456
35°	2215	1311
45°	705	581
55°	476	430
65°	343	335
75°	170	182
85°	44	50
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3676.7
2.5°	3669.3
5°	3658.2
7.5°	3628.7
10°	3580.7
12.5°	3525.3
15°	3470.0
17.5°	3414.6
20°	3344.5
22.5°	3274.3
25°	3189.4
27.5°	3060.2
30°	2875.6
32.5°	2609.8
35°	2214.9
37.5°	1653.8
40°	1144.4
42.5°	845.4
45°	705.1
47.5°	623.8
50°	568.4
52.5°	516.8
55°	476.2
57.5°	442.9
60°	409.7
62.5°	380.2
65°	343.3
67.5°	299.0
70°	251.0
72.5°	210.4
75°	169.9
77.5°	132.9
80°	99.7
82.5°	70.1
85°	44.3
87.5°	18.4
90°	0.0



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— 0°-180°







(END OF REPORT)