

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: P584696

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584696  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC845D010-HM82555840-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5467.8 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

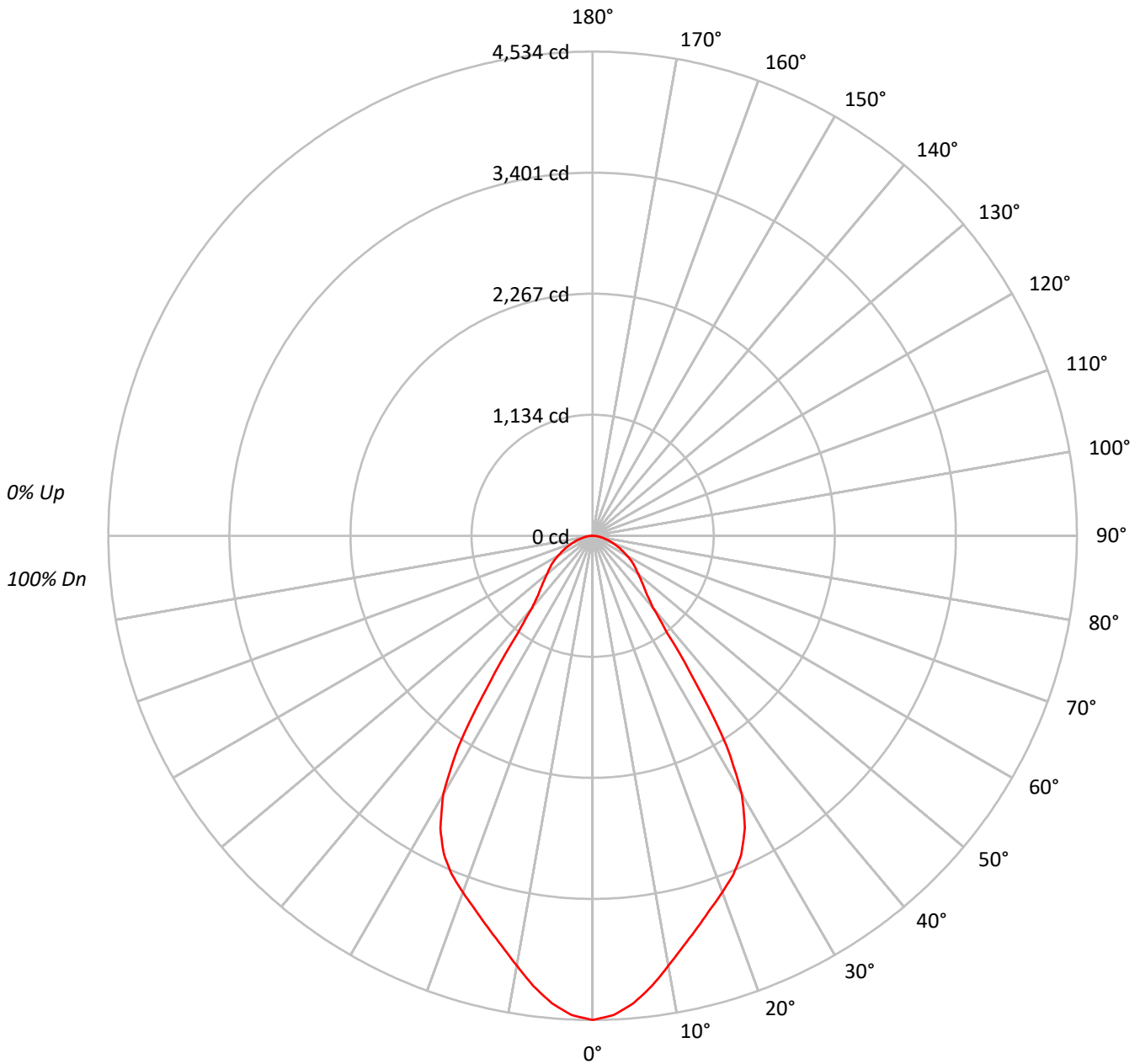
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°
0°	139815
5°	136003
10°	127982
15°	121171
20°	116560
25°	112055
30°	99521
35°	63378
40°	35371
45°	29628
50°	26745
55°	25214
60°	22998
65°	20744
70°	18302
75°	16287
80°	14419
85°	13055



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.6	7.5
10°-20°	1070.4	19.6
20°-30°	1493.3	27.3
30°-40°	1074.5	19.7
40°-50°	532.5	9.7
50°-60°	416.7	7.6
60°-70°	282.0	5.2
70°-80°	146.5	2.7
80°-90°	42.2	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°	2973.4	54.4
0°-40°	4047.9	74.0
0°-60°	4997.1	91.4
0°-90°	5467.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5467.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4534	
5°	4394	410
15°	3796	1070
25°	3293	1493
35°	1684	1075
45°	679	533
55°	469	417
65°	284	282
75°	137	147
85°	37	42
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4534.1
2.5°	4493.4
5°	4393.7
7.5°	4253.4
10°	4087.3
12.5°	3932.2
15°	3795.6
17.5°	3666.4
20°	3552.0
22.5°	3437.5
25°	3293.4
27.5°	3086.7
30°	2795.0
32.5°	2337.2
35°	1683.6
37.5°	1148.2
40°	878.7
42.5°	756.9
45°	679.4
47.5°	612.9
50°	557.5
52.5°	509.6
55°	469.0
57.5°	420.9
60°	372.9
62.5°	324.9
65°	284.3
67.5°	243.6
70°	203.0
72.5°	169.9
75°	136.7
77.5°	107.1
80°	81.2
82.5°	59.1
85°	36.9
87.5°	18.4
90°	0.0



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— 0°-180°







(END OF REPORT)