

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: P584560

Luminaire Tested: **HC840D010-HM82555840-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584560  
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: HC840D010-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: 5136.5 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

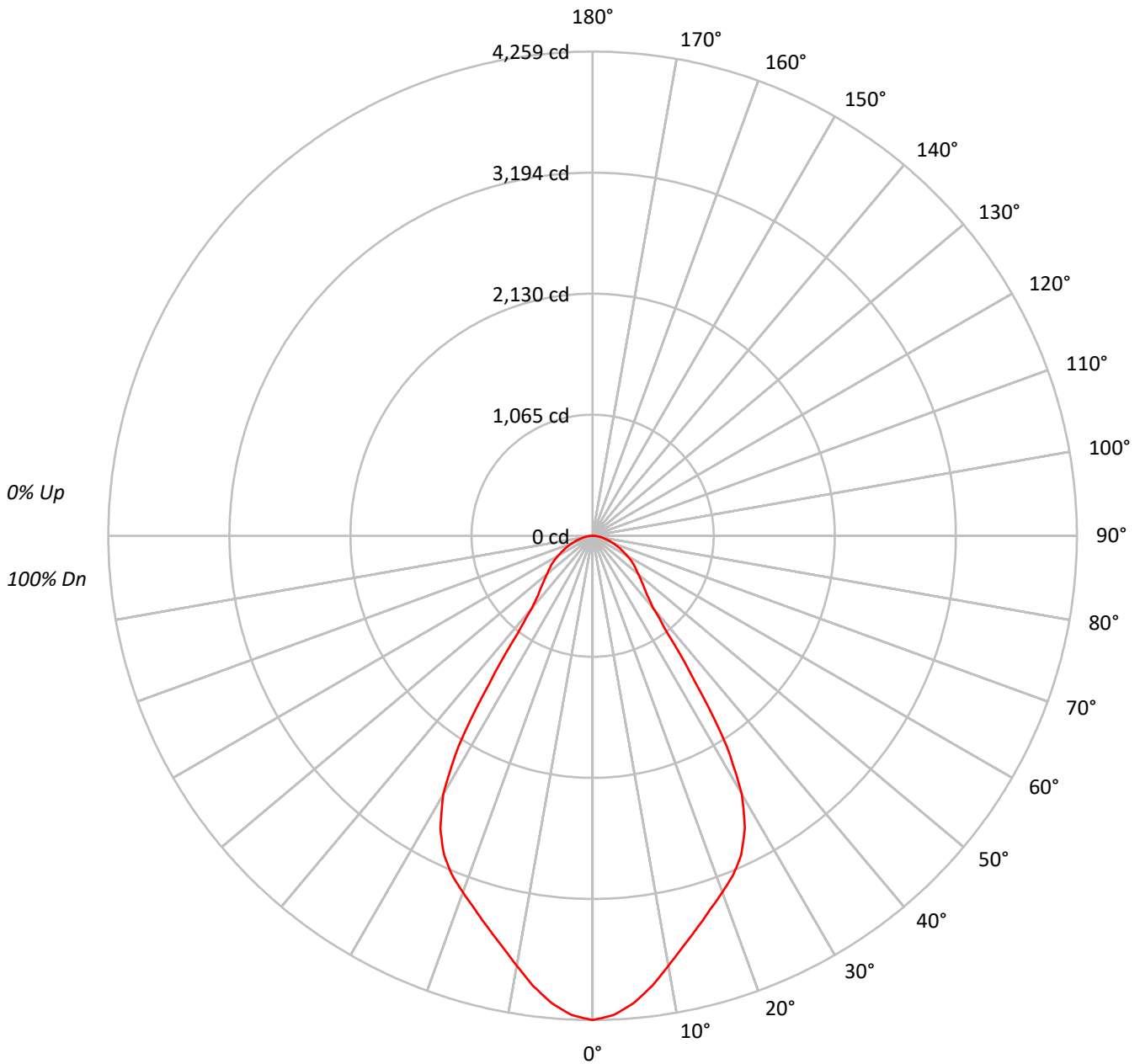
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	131338
5°	127763
10°	120229
15°	113829
20°	109492
25°	105267
30°	93489
35°	59538
40°	33230
45°	27831
50°	25123
55°	23682
60°	21604
65°	19482
70°	17202
75°	15286
80°	13549
85°	12242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.8	7.5
10°-20°	1005.6	19.6
20°-30°	1402.9	27.3
30°-40°	1009.4	19.7
40°-50°	500.2	9.7
50°-60°	391.4	7.6
60°-70°	265.0	5.2
70°-80°	137.6	2.7
80°-90°	39.6	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°	2793.2	54.4
0°-40°	3802.6	74.0
0°-60°	4694.3	91.4
0°-90°	5136.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5136.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4259	
5°	4128	385
15°	3566	1006
25°	3094	1403
35°	1582	1009
45°	638	500
55°	440	391
65°	267	265
75°	128	138
85°	35	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4259.2
2.5°	4221.2
5°	4127.5
7.5°	3995.7
10°	3839.7
12.5°	3693.9
15°	3565.6
17.5°	3444.2
20°	3336.6
22.5°	3229.2
25°	3093.9
27.5°	2899.7
30°	2625.6
32.5°	2195.5
35°	1581.6
37.5°	1078.7
40°	825.5
42.5°	711.0
45°	638.2
47.5°	575.7
50°	523.7
52.5°	478.6
55°	440.5
57.5°	395.4
60°	350.3
62.5°	305.2
65°	267.0
67.5°	229.0
70°	190.8
72.5°	159.6
75°	128.3
77.5°	100.6
80°	76.3
82.5°	55.5
85°	34.6
87.5°	17.4
90°	0.0



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— 0°-180°







(END OF REPORT)