

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: P584543

Luminaire Tested: **HC840D010-HM82555835-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584543  
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-HM82555835-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4742.6 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

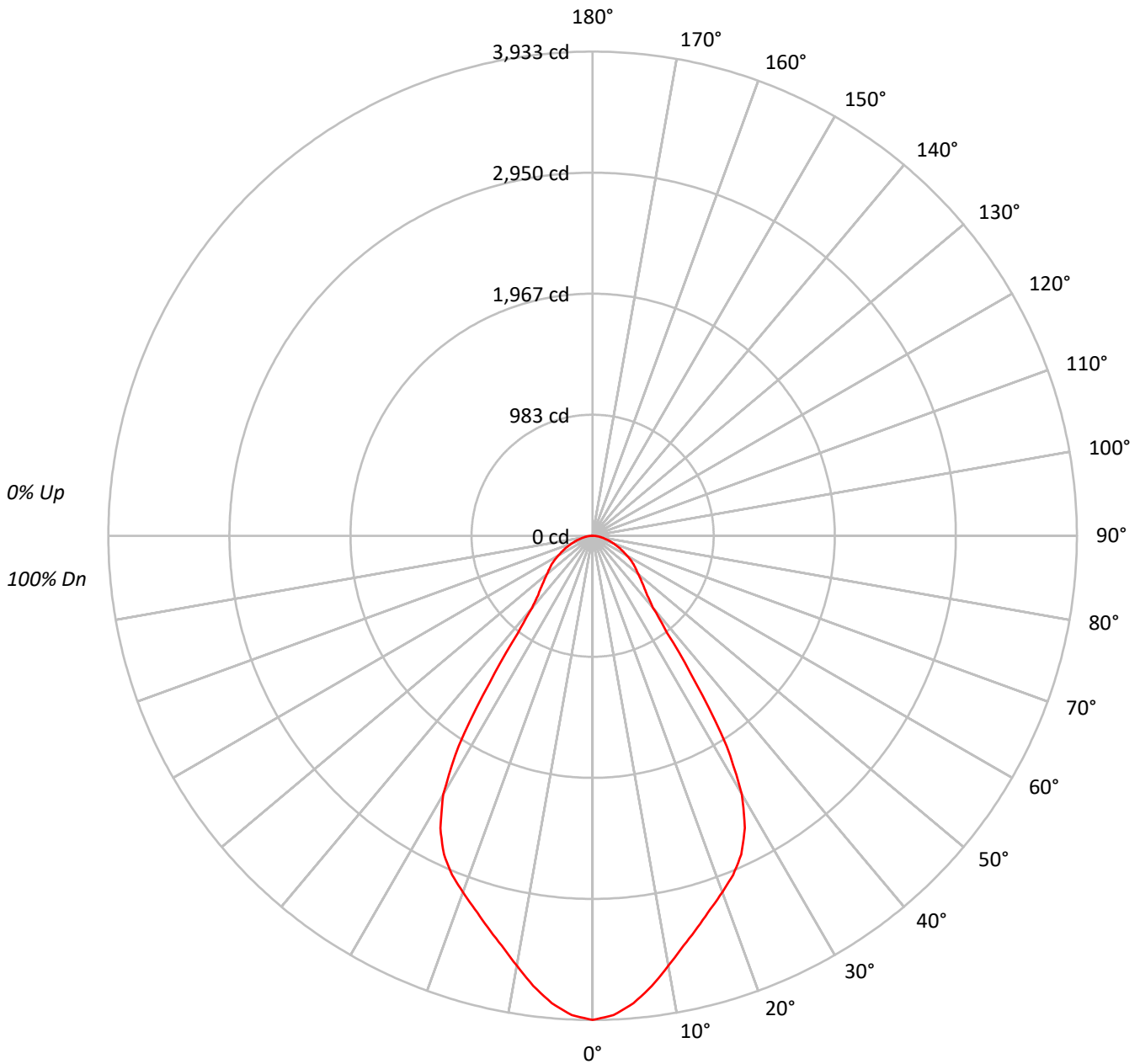
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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°	121270
5°	117966
10°	111004
15°	105097
20°	101097
25°	97193
30°	86321
35°	54976
40°	30682
45°	25699
50°	23200
55°	21865
60°	19945
65°	17993
70°	15877
75°	14118
80°	12502
85°	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.3	7.5
10°-20°	928.5	19.6
20°-30°	1295.3	27.3
30°-40°	932.0	19.7
40°-50°	461.9	9.7
50°-60°	361.4	7.6
60°-70°	244.6	5.2
70°-80°	127.0	2.7
80°-90°	36.6	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°	2579.0	54.4
0°-40°	3511.0	74.0
0°-60°	4334.3	91.4
0°-90°	4742.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3933	
5°	3811	355
15°	3292	928
25°	2857	1295
35°	1460	932
45°	589	462
55°	407	361
65°	247	245
75°	118	127
85°	32	37
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3932.7
2.5°	3897.5
5°	3811.0
7.5°	3689.2
10°	3545.1
12.5°	3410.7
15°	3292.1
17.5°	3180.0
20°	3080.8
22.5°	2981.5
25°	2856.6
27.5°	2677.3
30°	2424.3
32.5°	2027.2
35°	1460.4
37.5°	996.0
40°	762.2
42.5°	656.5
45°	589.3
47.5°	531.6
50°	483.6
52.5°	442.0
55°	406.7
57.5°	365.1
60°	323.4
62.5°	281.8
65°	246.6
67.5°	211.3
70°	176.1
72.5°	147.3
75°	118.5
77.5°	92.8
80°	70.4
82.5°	51.3
85°	32.0
87.5°	16.1
90°	0.0



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— 0°-180°







(END OF REPORT)