

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: P584628

Luminaire Tested: **HC840D010-HM82555940-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584628  
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-HM82555940-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4888.7 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

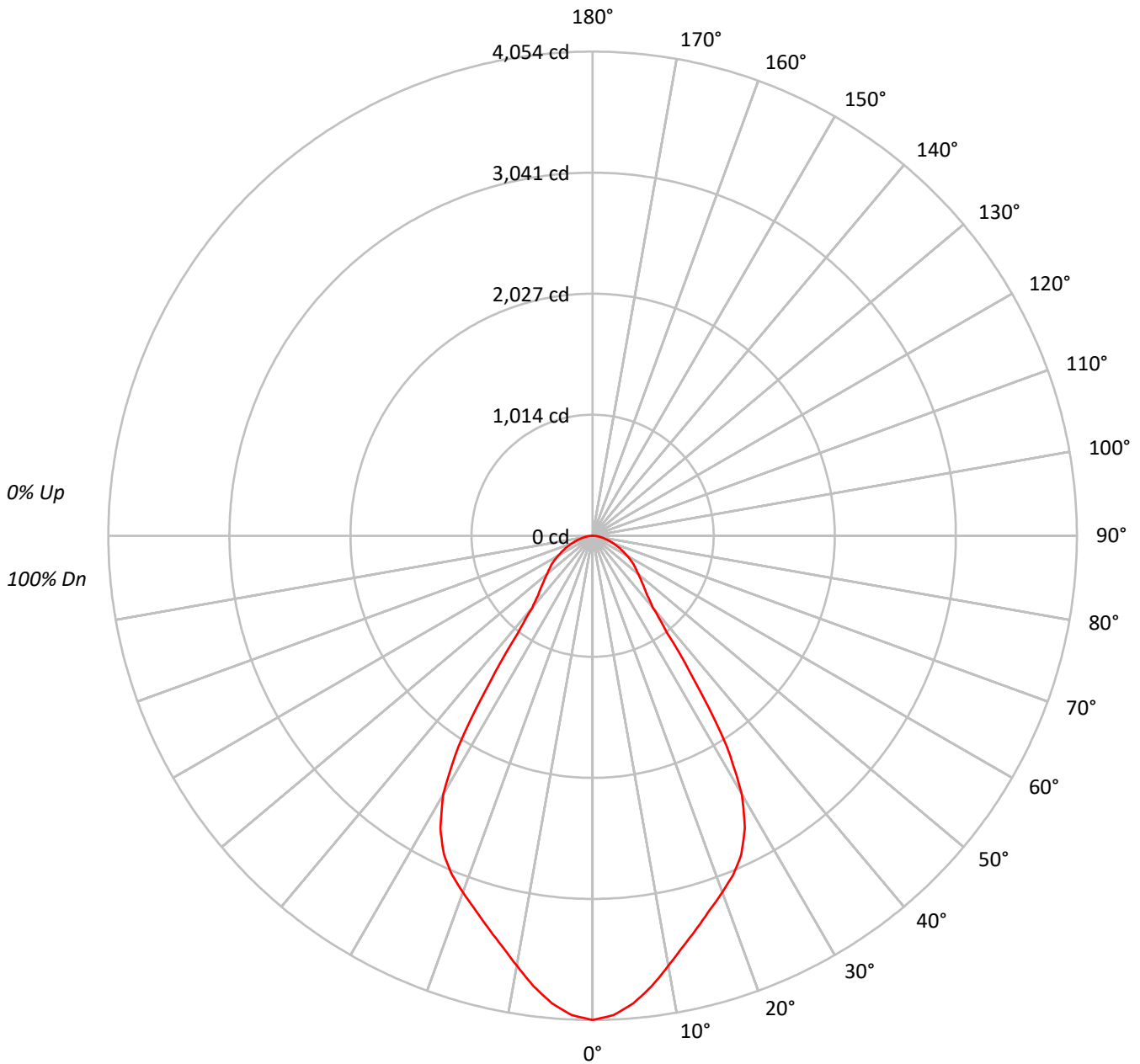
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	125007
5°	121600
10°	114427
15°	108338
20°	104215
25°	100191
30°	88981
35°	56670
40°	31624
45°	26488
50°	23914
55°	22537
60°	20562
65°	18548
70°	16373
75°	14547
80°	12892
85°	11676



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.2	7.5
10°-20°	957.1	19.6
20°-30°	1335.2	27.3
30°-40°	960.7	19.7
40°-50°	476.1	9.7
50°-60°	372.5	7.6
60°-70°	252.2	5.2
70°-80°	130.9	2.7
80°-90°	37.7	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°	2658.5	54.4
0°-40°	3619.2	74.0
0°-60°	4467.8	91.4
0°-90°	4888.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4888.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4054	
5°	3928	366
15°	3394	957
25°	2945	1335
35°	1505	961
45°	607	476
55°	419	372
65°	254	252
75°	122	131
85°	33	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4053.9
2.5°	4017.6
5°	3928.4
7.5°	3802.9
10°	3654.4
12.5°	3515.7
15°	3393.6
17.5°	3278.1
20°	3175.8
22.5°	3073.4
25°	2944.7
27.5°	2759.7
30°	2499.0
32.5°	2089.6
35°	1505.4
37.5°	1026.6
40°	785.6
42.5°	676.8
45°	607.4
47.5°	548.0
50°	498.5
52.5°	455.5
55°	419.2
57.5°	376.3
60°	333.4
62.5°	290.5
65°	254.2
67.5°	217.9
70°	181.6
72.5°	151.8
75°	122.1
77.5°	95.7
80°	72.6
82.5°	52.8
85°	33.0
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)