

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: P584605

Luminaire Tested: **HC840D010-HM82555930-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC840D010-HM82555930-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4892.2 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

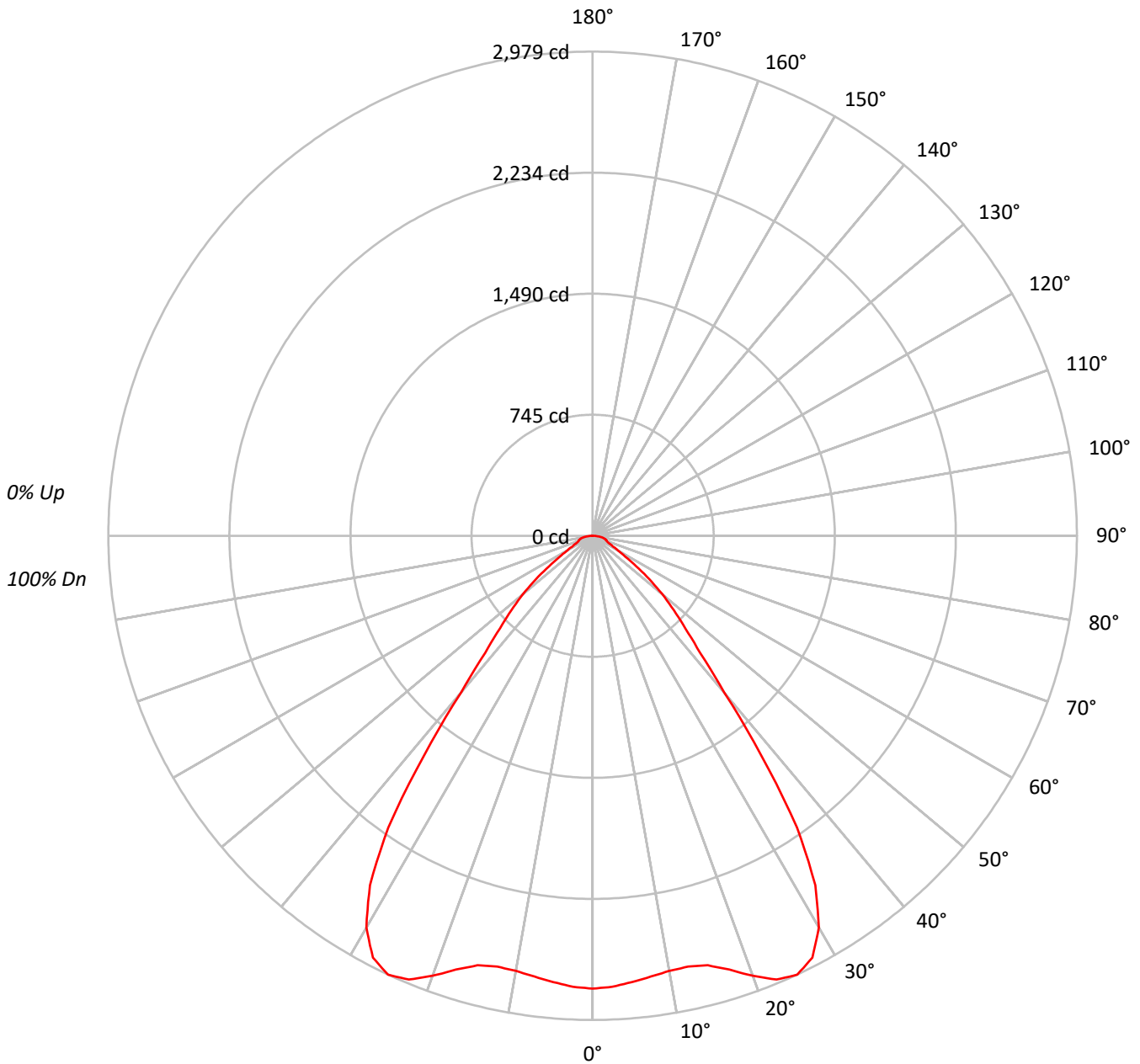
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

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

	0°
0°	85919
5°	85325
10°	85106
15°	87338
20°	94551
25°	101368
30°	99104
35°	82524
40°	50700
45°	35105
50°	26793
55°	17569
60°	10996
65°	8238
70°	8304
75°	9555
80°	10548
85°	9482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.9	5.4
10°-20°	785.4	16.1
20°-30°	1352.0	27.6
30°-40°	1309.9	26.8
40°-50°	645.2	13.2
50°-60°	304.5	6.2
60°-70°	120.0	2.5
70°-80°	82.8	1.7
80°-90°	30.7	0.6
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°	2399.2	49.0
0°-40°	3709.1	75.8
0°-60°	4658.7	95.2
0°-90°	4892.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4892.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2786	
5°	2756	262
15°	2736	785
25°	2979	1352
35°	2192	1310
45°	805	645
55°	327	304
65°	113	120
75°	80	83
85°	27	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2786.3
2.5°	2777.3
5°	2756.5
7.5°	2735.8
10°	2718.0
12.5°	2715.0
15°	2735.8
17.5°	2798.2
20°	2881.3
22.5°	2955.6
25°	2979.3
27.5°	2925.9
30°	2783.3
32.5°	2548.6
35°	2192.2
37.5°	1702.1
40°	1259.5
42.5°	977.2
45°	805.0
47.5°	677.2
50°	558.5
52.5°	439.6
55°	326.8
57.5°	237.6
60°	178.3
62.5°	139.6
65°	112.9
67.5°	98.1
70°	92.1
72.5°	86.2
75°	80.2
77.5°	71.3
80°	59.4
82.5°	44.5
85°	26.8
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)