

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: P584520

Luminaire Tested: **HC840D010-HM82555827-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584520  
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-HM82555827-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5095.2 lumens  
Efficiency: N/A  
Efficacy: 124.3 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

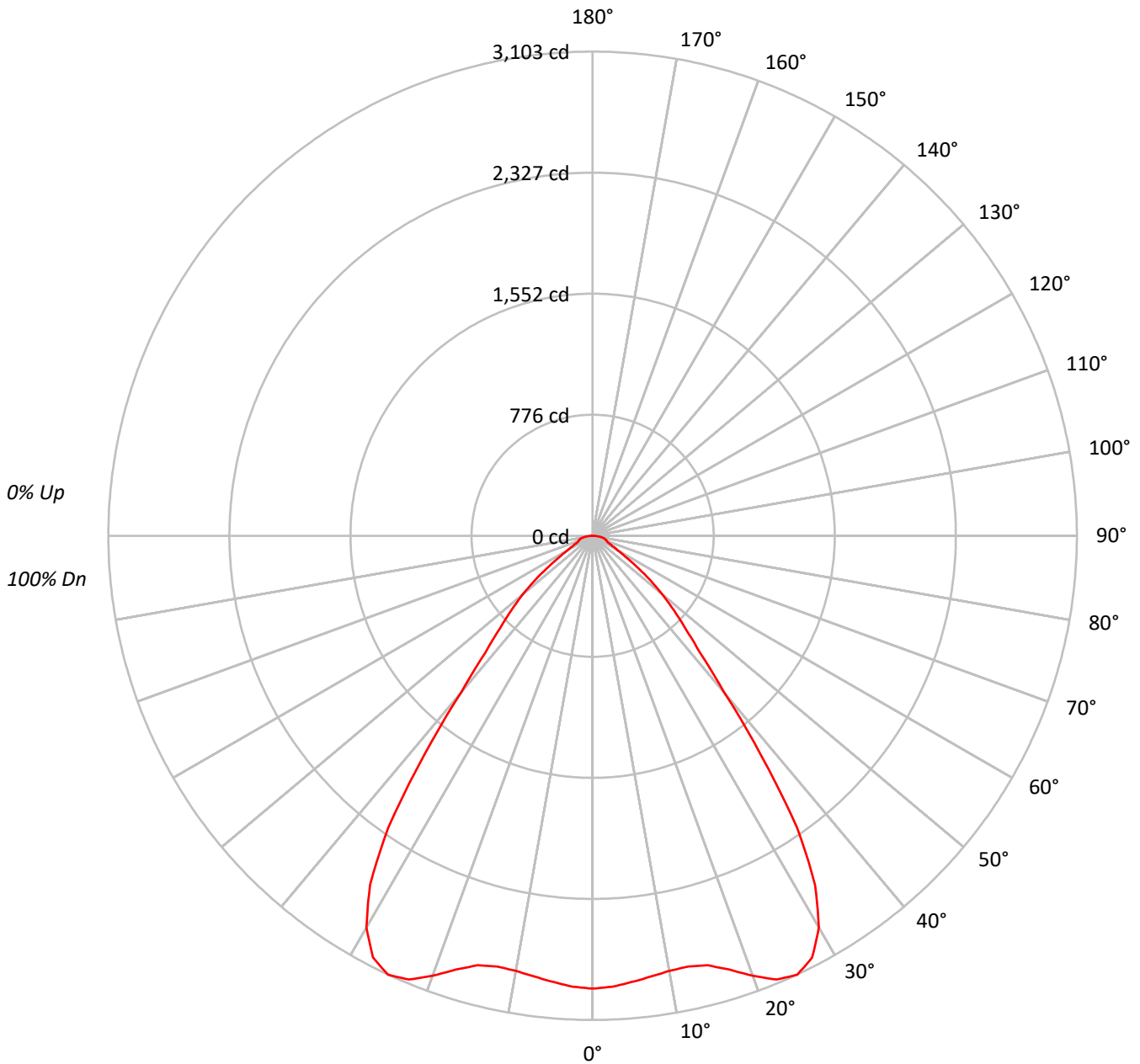
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584520

CATALOG NUMBER: HC840D010-HM82555827-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P584520

CATALOG NUMBER: HC840D010-HM82555827-81WDWB

**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	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°	89484
5°	88869
10°	88638
15°	90961
20°	98475
25°	105577
30°	103217
35°	85945
40°	52801
45°	36562
50°	27906
55°	18295
60°	11446
65°	8581
70°	8646
75°	9948
80°	10992
85°	9836



TEST NUMBER: P584520

CATALOG NUMBER: HC840D010-HM82555827-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.8	5.4
10°-20°	817.9	16.1
20°-30°	1408.1	27.6
30°-40°	1364.2	26.8
40°-50°	672.0	13.2
50°-60°	317.1	6.2
60°-70°	125.0	2.5
70°-80°	86.2	1.7
80°-90°	32.0	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°	2498.8	49.0
0°-40°	3863.0	75.8
0°-60°	4852.1	95.2
0°-90°	5095.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5095.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2902	
5°	2871	273
15°	2849	818
25°	3103	1408
35°	2283	1364
45°	838	672
55°	340	317
65°	118	125
75°	84	86
85°	28	32
90°	0	



TEST NUMBER: P584520

CATALOG NUMBER: HC840D010-HM82555827-81WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2901.9
2.5°	2892.7
5°	2871.0
7.5°	2849.3
10°	2830.8
12.5°	2827.7
15°	2849.3
17.5°	2914.3
20°	3000.9
22.5°	3078.3
25°	3103.0
27.5°	3047.4
30°	2898.8
32.5°	2654.4
35°	2283.1
37.5°	1772.7
40°	1311.7
42.5°	1017.8
45°	838.4
47.5°	705.4
50°	581.7
52.5°	457.9
55°	340.3
57.5°	247.5
60°	185.6
62.5°	145.4
65°	117.6
67.5°	102.1
70°	95.9
72.5°	89.7
75°	83.5
77.5°	74.3
80°	61.9
82.5°	46.4
85°	27.8
87.5°	12.4
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)