

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: P584214

Luminaire Tested: **HC825D010-HM82555935-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584214  
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: HC825D010-HM82555935-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2625.4 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

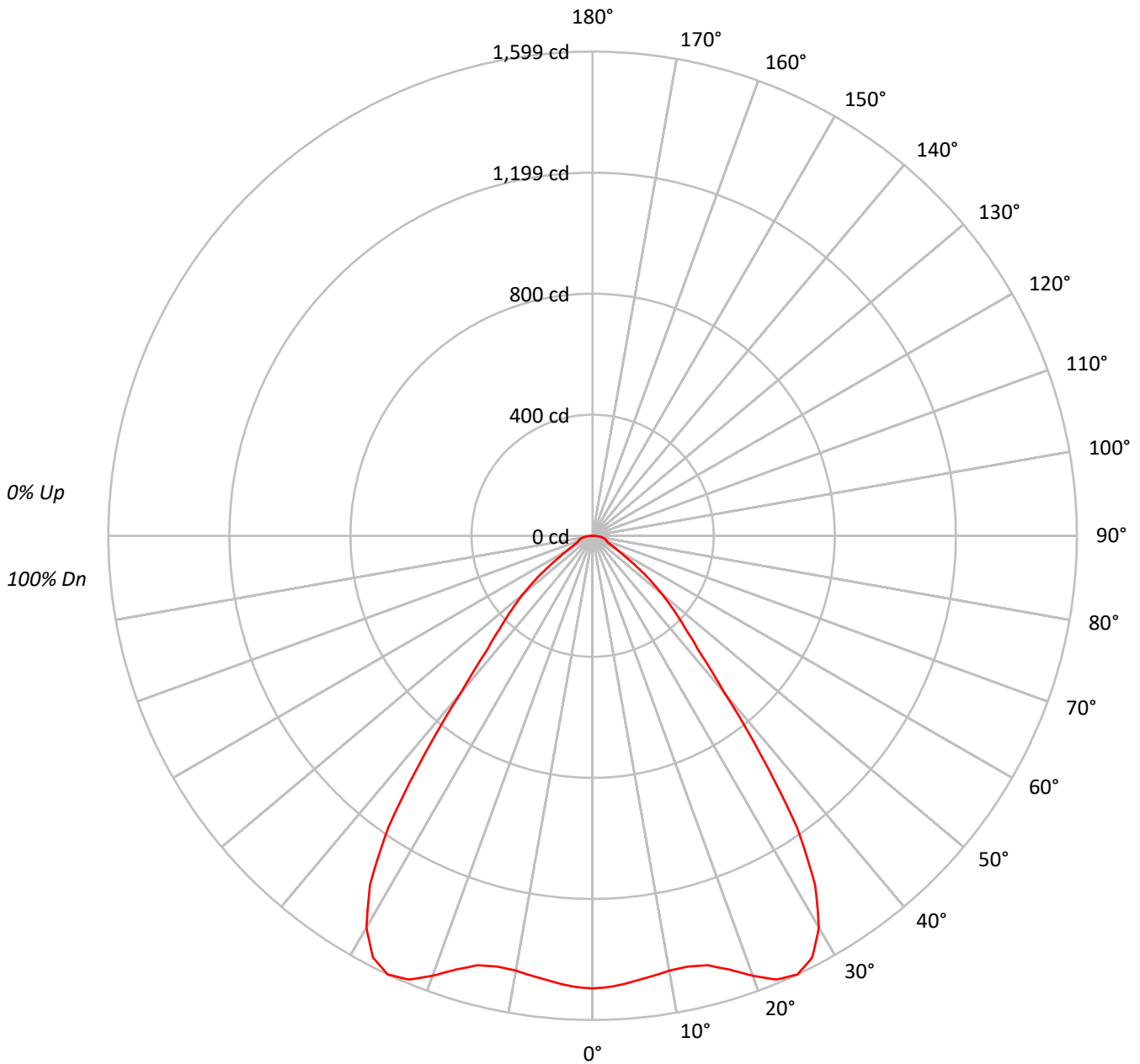
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584214

CATALOG NUMBER: HC825D010-HM82555935-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P584214

CATALOG NUMBER: HC825D010-HM82555935-81WDWB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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°	46106
5°	45790
10°	45669
15°	46868
20°	50742
25°	54398
30°	53182
35°	44288
40°	27208
45°	18839
50°	14377
55°	9430
60°	5902
65°	4422
70°	4454
75°	5123
80°	5665
85°	5059



TEST NUMBER: P584214

CATALOG NUMBER: HC825D010-HM82555935-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	5.4
10°-20°	421.4	16.1
20°-30°	725.5	27.6
30°-40°	702.9	26.8
40°-50°	346.2	13.2
50°-60°	163.4	6.2
60°-70°	64.4	2.5
70°-80°	44.4	1.7
80°-90°	16.5	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°	1287.5	49.0
0°-40°	1990.5	75.8
0°-60°	2500.1	95.2
0°-90°	2625.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1495	
5°	1479	141
15°	1468	421
25°	1599	726
35°	1176	703
45°	432	346
55°	175	163
65°	61	64
75°	43	44
85°	14	16
90°	0	



TEST NUMBER: P584214

CATALOG NUMBER: HC825D010-HM82555935-81WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1495.2
2.5°	1490.4
5°	1479.3
7.5°	1468.1
10°	1458.5
12.5°	1457.0
15°	1468.1
17.5°	1501.6
20°	1546.3
22.5°	1586.1
25°	1598.8
27.5°	1570.1
30°	1493.6
32.5°	1367.7
35°	1176.5
37.5°	913.4
40°	675.9
42.5°	524.4
45°	432.0
47.5°	363.5
50°	299.7
52.5°	235.9
55°	175.4
57.5°	127.5
60°	95.7
62.5°	74.9
65°	60.6
67.5°	52.6
70°	49.4
72.5°	46.2
75°	43.0
77.5°	38.3
80°	31.9
82.5°	23.9
85°	14.3
87.5°	6.4
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)