

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: P585098

Luminaire Tested: **HC860D010-HM86080835-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585098  
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: HC860D010-HM86080835-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6856.6 lumens  
Efficiency: N/A  
Efficacy: 122.4 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

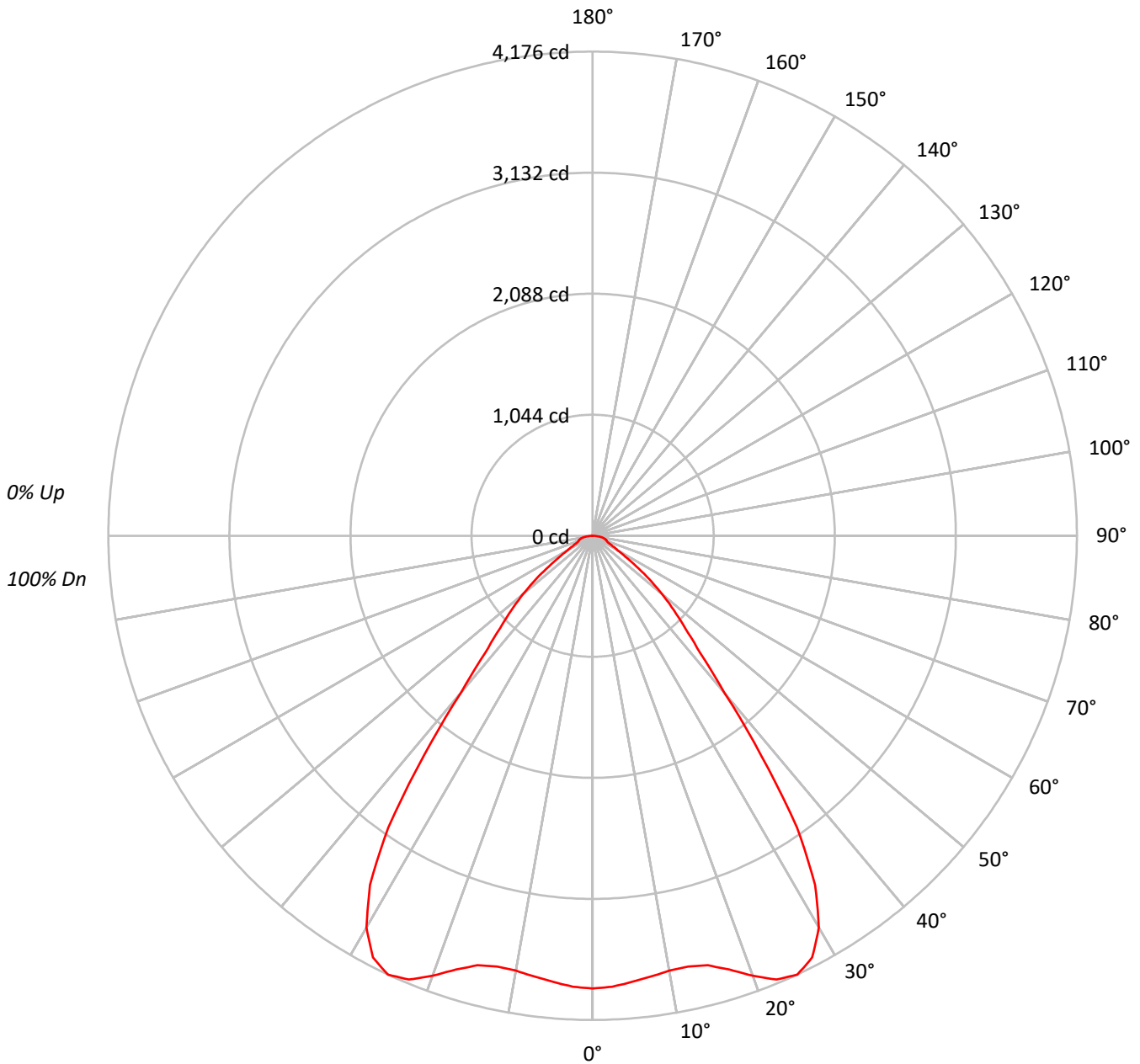
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P585098

CATALOG NUMBER: HC860D010-HM86080835-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P585098

CATALOG NUMBER: HC860D010-HM86080835-81WDWB

**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	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°	120419
5°	119588
10°	119277
15°	122403
20°	132518
25°	142074
30°	138898
35°	115658
40°	71056
45°	49204
50°	37548
55°	24617
60°	15406
65°	11543
70°	11640
75°	13404
80°	14792
85°	13268



TEST NUMBER: P585098

CATALOG NUMBER: HC860D010-HM86080835-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.1	5.4
10°-20°	1100.7	16.1
20°-30°	1894.8	27.6
30°-40°	1835.8	26.8
40°-50°	904.3	13.2
50°-60°	426.7	6.2
60°-70°	168.1	2.5
70°-80°	116.0	1.7
80°-90°	43.0	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°	3362.6	49.0
0°-40°	5198.4	75.8
0°-60°	6529.4	95.2
0°-90°	6856.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6856.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3905	
5°	3863	367
15°	3834	1101
25°	4176	1895
35°	3072	1836
45°	1128	904
55°	458	427
65°	158	168
75°	112	116
85°	38	43
90°	0	



TEST NUMBER: P585098

CATALOG NUMBER: HC860D010-HM86080835-81WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3905.1
2.5°	3892.5
5°	3863.4
7.5°	3834.2
10°	3809.3
12.5°	3805.1
15°	3834.2
17.5°	3921.7
20°	4038.3
22.5°	4142.3
25°	4175.7
27.5°	4100.7
30°	3900.9
32.5°	3572.0
35°	3072.4
37.5°	2385.5
40°	1765.2
42.5°	1369.7
45°	1128.3
47.5°	949.2
50°	782.7
52.5°	616.1
55°	457.9
57.5°	333.1
60°	249.8
62.5°	195.6
65°	158.2
67.5°	137.4
70°	129.1
72.5°	120.8
75°	112.5
77.5°	99.9
80°	83.3
82.5°	62.4
85°	37.5
87.5°	16.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)