

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: P585155

Luminaire Tested: **HC860D010-HM86080935-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585155  
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: HC860D010-HM86080935-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5470.7 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

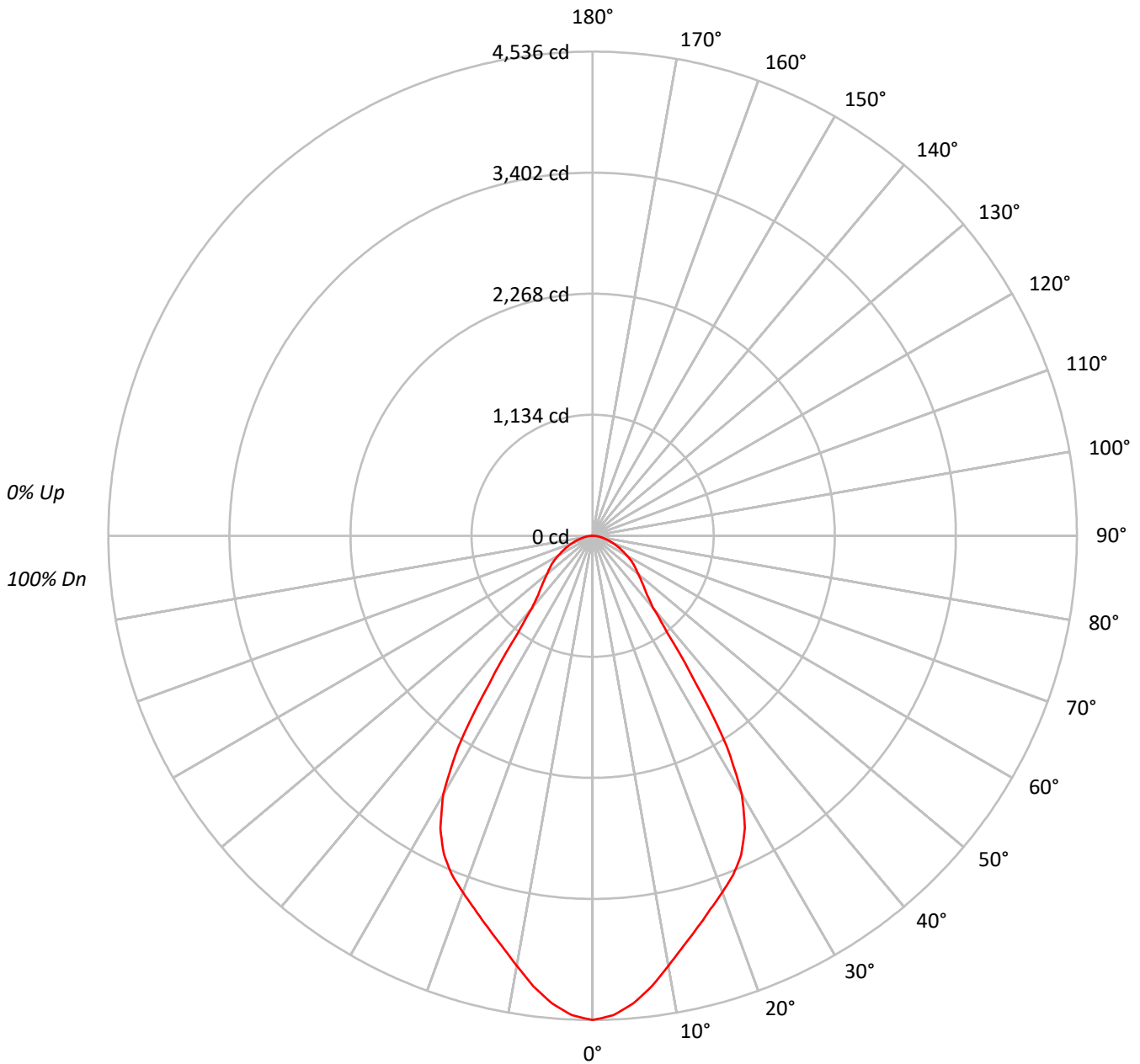
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P585155

CATALOG NUMBER: HC860D010-HM86080935-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585155

CATALOG NUMBER: HC860D010-HM86080935-81MDW

**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°	139883
5°	136074
10°	128047
15°	121235
20°	116616
25°	112113
30°	99571
35°	63412
40°	35391
45°	29641
50°	26759
55°	25225
60°	23010
65°	20751
70°	18320
75°	16287
80°	14437
85°	13055



TEST NUMBER: P585155

CATALOG NUMBER: HC860D010-HM86080935-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.8	7.5
10°-20°	1071.0	19.6
20°-30°	1494.1	27.3
30°-40°	1075.1	19.7
40°-50°	532.8	9.7
50°-60°	416.9	7.6
60°-70°	282.2	5.2
70°-80°	146.6	2.7
80°-90°	42.2	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°	2974.9	54.4
0°-40°	4050.0	74.0
0°-60°	4999.7	91.4
0°-90°	5470.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5470.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4536	
5°	4396	410
15°	3798	1071
25°	3295	1494
35°	1684	1075
45°	680	533
55°	469	417
65°	284	282
75°	137	147
85°	37	42
90°	0	



TEST NUMBER: P585155

CATALOG NUMBER: HC860D010-HM86080935-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4536.3
2.5°	4495.7
5°	4396.0
7.5°	4255.6
10°	4089.4
12.5°	3934.2
15°	3797.6
17.5°	3668.3
20°	3553.7
22.5°	3439.2
25°	3295.1
27.5°	3088.2
30°	2796.4
32.5°	2338.4
35°	1684.5
37.5°	1148.9
40°	879.2
42.5°	757.3
45°	679.7
47.5°	613.3
50°	557.8
52.5°	509.8
55°	469.2
57.5°	421.1
60°	373.1
62.5°	325.0
65°	284.4
67.5°	243.8
70°	203.2
72.5°	169.9
75°	136.7
77.5°	107.2
80°	81.3
82.5°	59.1
85°	36.9
87.5°	18.5
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)