

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: P585057

Luminaire Tested: **HC860D010-HM86080827-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC860D010-HM86080827-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5184.5 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

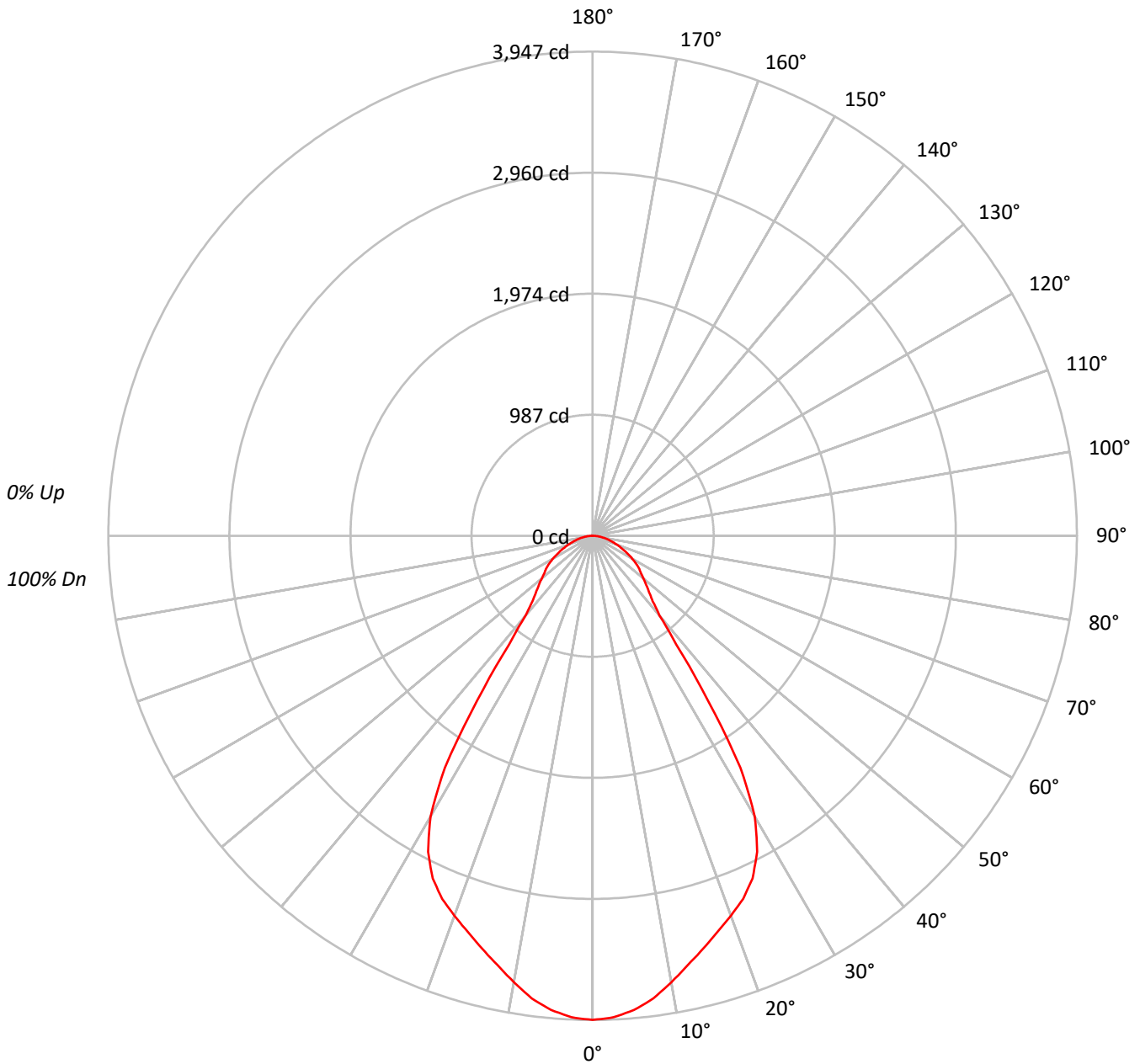
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P585057

CATALOG NUMBER: HC860D010-HM86080827-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585057

CATALOG NUMBER: HC860D010-HM86080827-81PSMDW

**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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	121699
5°	120111
10°	115714
15°	111188
20°	108113
25°	104862
30°	94098
35°	61684
40°	34103
45°	28429
50°	25924
55°	24741
60°	23004
65°	20861
70°	18861
75°	17025
80°	15485
85°	14825



TEST NUMBER: P585057

CATALOG NUMBER: HC860D010-HM86080827-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.6	7.0
10°-20°	982.6	19.0
20°-30°	1398.4	27.0
30°-40°	1035.0	20.0
40°-50°	512.6	9.9
50°-60°	409.1	7.9
60°-70°	284.0	5.5
70°-80°	153.0	3.0
80°-90°	45.1	0.9
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°	2745.6	53.0
0°-40°	3780.6	72.9
0°-60°	4702.3	90.7
0°-90°	5184.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5184.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3947	
5°	3880	365
15°	3483	983
25°	3082	1398
35°	1639	1035
45°	652	513
55°	460	409
65°	286	284
75°	143	153
85°	42	45
90°	0	



TEST NUMBER: P585057

CATALOG NUMBER: HC860D010-HM86080827-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3946.6
2.5°	3929.2
5°	3880.3
7.5°	3803.6
10°	3695.5
12.5°	3584.0
15°	3482.9
17.5°	3385.2
20°	3294.6
22.5°	3203.9
25°	3082.0
27.5°	2904.1
30°	2642.7
32.5°	2241.7
35°	1638.6
37.5°	1119.1
40°	847.2
42.5°	725.1
45°	651.9
47.5°	592.7
50°	540.4
52.5°	495.0
55°	460.2
57.5°	418.3
60°	373.0
62.5°	327.7
65°	285.9
67.5°	244.1
70°	209.2
72.5°	174.3
75°	142.9
77.5°	115.0
80°	87.2
82.5°	62.7
85°	41.9
87.5°	17.4
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)