

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: P585159

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585159  
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-HM86080935-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5492.9 lumens  
Efficiency: N/A  
Efficacy: 98.1 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

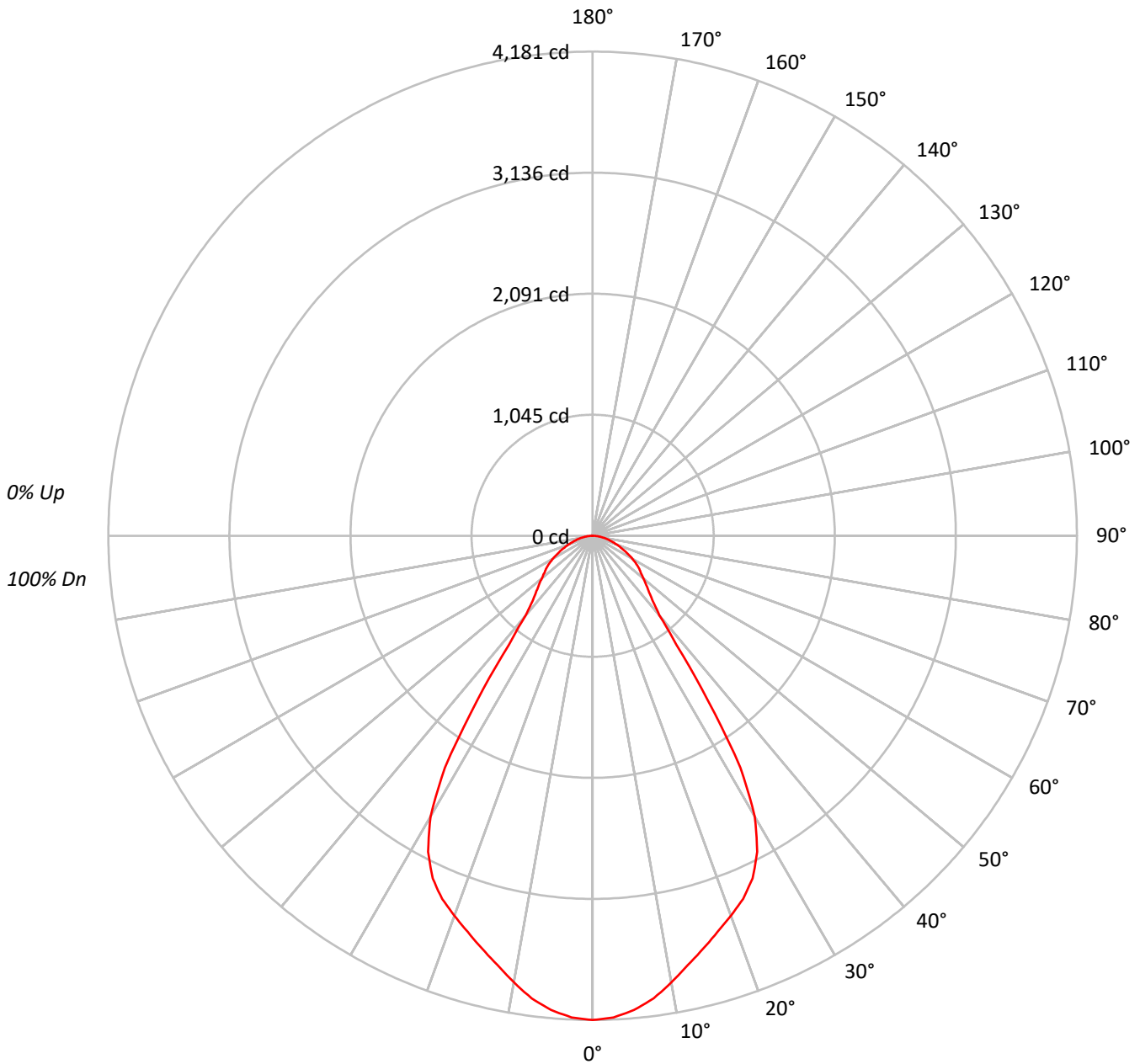
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

	0°
0°	128933
5°	127255
10°	122596
15°	117800
20°	114542
25°	111096
30°	99692
35°	65350
40°	36132
45°	30125
50°	27464
55°	26209
60°	24379
65°	22101
70°	19979
75°	18038
80°	16408
85°	15674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.3	7.0
10°-20°	1041.1	19.0
20°-30°	1481.6	27.0
30°-40°	1096.6	20.0
40°-50°	543.1	9.9
50°-60°	433.5	7.9
60°-70°	300.9	5.5
70°-80°	162.2	3.0
80°-90°	47.7	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°	2908.9	53.0
0°-40°	4005.5	72.9
0°-60°	4982.1	90.7
0°-90°	5492.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5492.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4181	
5°	4111	386
15°	3690	1041
25°	3265	1482
35°	1736	1097
45°	691	543
55°	488	433
65°	303	301
75°	151	162
85°	44	48
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4181.2
2.5°	4162.7
5°	4111.1
7.5°	4029.7
10°	3915.3
12.5°	3797.1
15°	3690.0
17.5°	3586.6
20°	3490.5
22.5°	3394.5
25°	3265.2
27.5°	3076.8
30°	2799.8
32.5°	2375.1
35°	1736.0
37.5°	1185.7
40°	897.6
42.5°	768.3
45°	690.8
47.5°	627.9
50°	572.5
52.5°	524.5
55°	487.5
57.5°	443.3
60°	395.3
62.5°	347.2
65°	302.9
67.5°	258.6
70°	221.6
72.5°	184.7
75°	151.4
77.5°	121.9
80°	92.4
82.5°	66.4
85°	44.3
87.5°	18.5
90°	0.0



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— 0°-180°







(END OF REPORT)