

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: P585091

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585091  
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-HM86080835-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6190.4 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

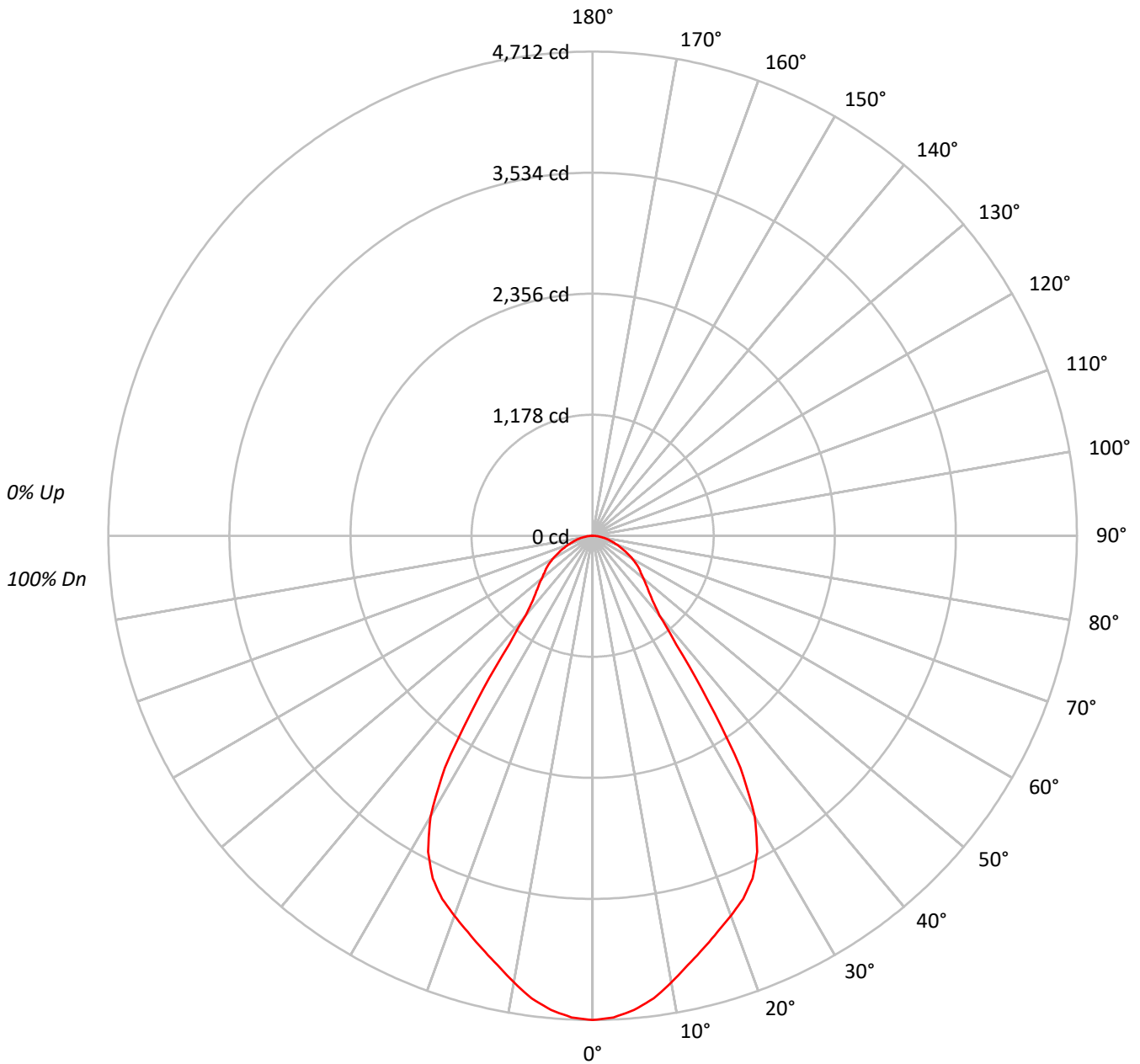
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	145307
5°	143417
10°	138167
15°	132760
20°	129089
25°	125205
30°	112353
35°	73651
40°	40717
45°	33945
50°	30952
55°	29542
60°	27469
65°	24903
70°	22513
75°	20338
80°	18468
85°	17655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.3	7.0
10°-20°	1173.3	19.0
20°-30°	1669.7	27.0
30°-40°	1235.8	20.0
40°-50°	612.1	9.9
50°-60°	488.5	7.9
60°-70°	339.1	5.5
70°-80°	182.8	3.0
80°-90°	53.8	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°	3278.3	53.0
0°-40°	4514.1	72.9
0°-60°	5614.7	90.7
0°-90°	6190.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6190.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4712	
5°	4633	435
15°	4159	1173
25°	3680	1670
35°	1956	1236
45°	778	612
55°	550	489
65°	341	339
75°	171	183
85°	50	54
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4712.2
2.5°	4691.5
5°	4633.2
7.5°	4541.6
10°	4412.6
12.5°	4279.3
15°	4158.6
17.5°	4042.1
20°	3933.8
22.5°	3825.6
25°	3679.9
27.5°	3467.6
30°	3155.4
32.5°	2676.7
35°	1956.5
37.5°	1336.2
40°	1011.5
42.5°	865.9
45°	778.4
47.5°	707.7
50°	645.2
52.5°	591.1
55°	549.5
57.5°	499.5
60°	445.4
62.5°	391.3
65°	341.3
67.5°	291.3
70°	249.7
72.5°	208.2
75°	170.7
77.5°	137.4
80°	104.0
82.5°	75.0
85°	49.9
87.5°	20.8
90°	0.0



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— 0°-180°







(END OF REPORT)