

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: P583565

Luminaire Tested: **HC807D010-HM80520827-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583565  
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: HC807D010-HM80520827-81PSMDW  
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: 930.6 lumens  
Efficiency: N/A  
Efficacy: 116.3 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

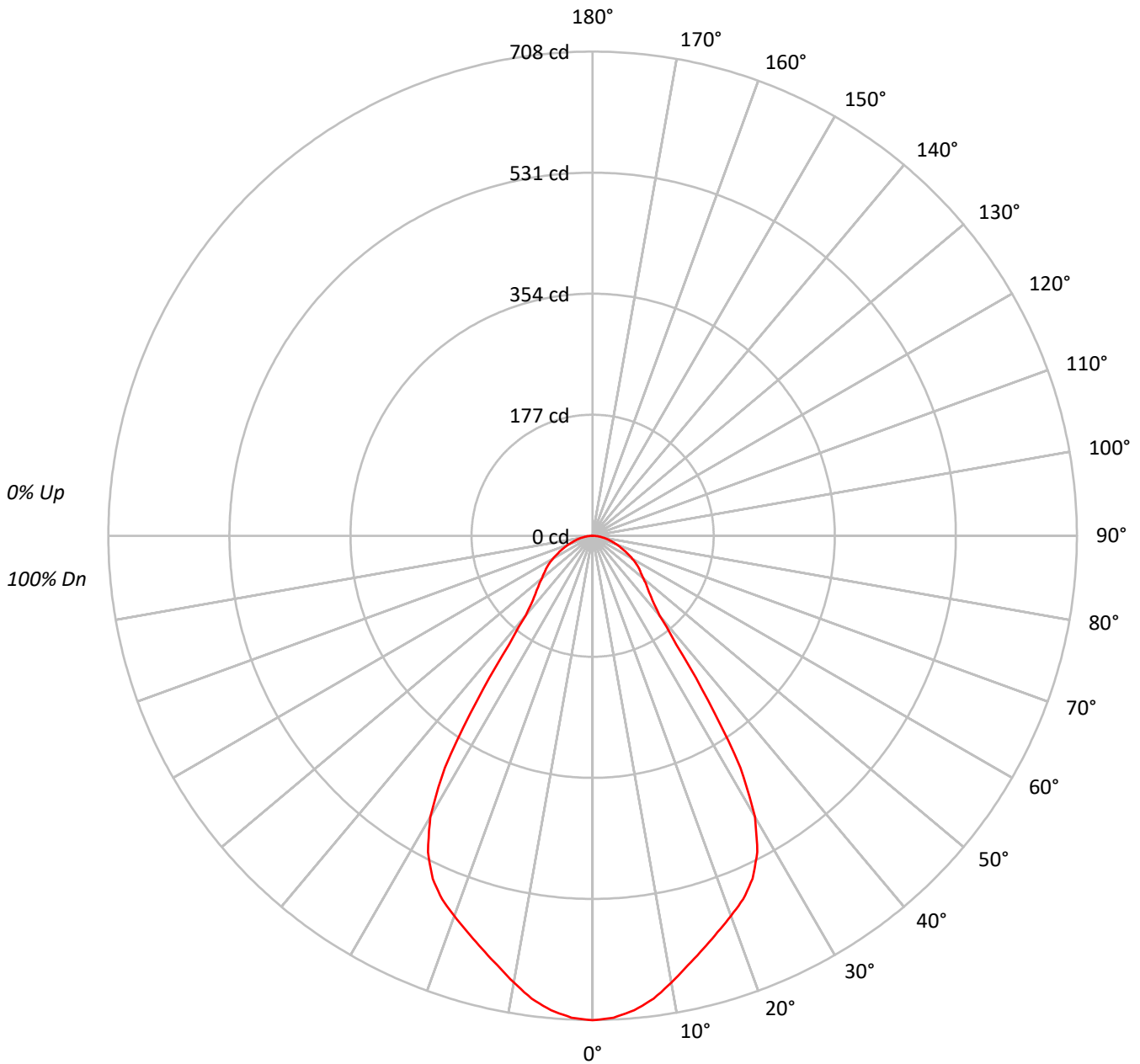
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	21844
5°	21563
10°	20769
15°	19959
20°	19407
25°	18826
30°	16892
35°	11071
40°	6123
45°	5102
50°	4653
55°	4441
60°	4126
65°	3743
70°	3381
75°	3062
80°	2788
85°	2654



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	7.0
10°-20°	176.4	19.0
20°-30°	251.0	27.0
30°-40°	185.8	20.0
40°-50°	92.0	9.9
50°-60°	73.4	7.9
60°-70°	51.0	5.5
70°-80°	27.5	3.0
80°-90°	8.1	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°	492.9	53.0
0°-40°	678.7	72.9
0°-60°	844.1	90.7
0°-90°	930.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	930.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	708	
5°	697	65
15°	625	176
25°	553	251
35°	294	186
45°	117	92
55°	83	73
65°	51	51
75°	26	28
85°	8	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	708.4
2.5°	705.3
5°	696.6
7.5°	682.8
10°	663.3
12.5°	643.4
15°	625.2
17.5°	607.7
20°	591.4
22.5°	575.2
25°	553.3
27.5°	521.3
30°	474.4
32.5°	402.4
35°	294.1
37.5°	200.9
40°	152.1
42.5°	130.1
45°	117.0
47.5°	106.4
50°	97.0
52.5°	88.9
55°	82.6
57.5°	75.0
60°	66.9
62.5°	58.8
65°	51.3
67.5°	43.9
70°	37.5
72.5°	31.3
75°	25.7
77.5°	20.7
80°	15.7
82.5°	11.2
85°	7.5
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)