

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: P583667

Luminaire Tested: **HC807D010-HM80520935-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583667  
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-HM80520935-81PSMDW  
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: 883.8 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

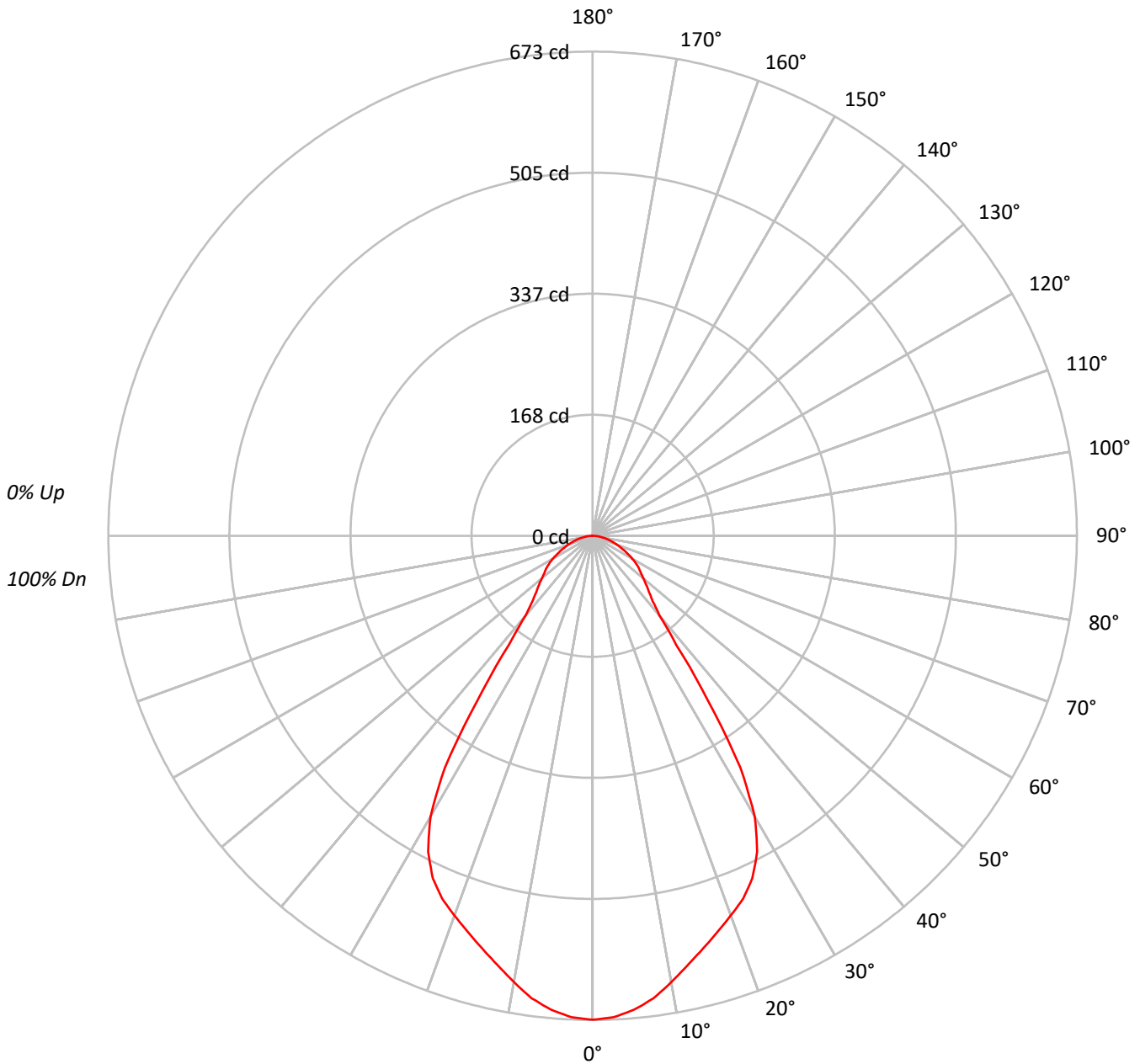
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	20744
5°	20473
10°	19723
15°	18953
20°	18429
25°	17873
30°	16041
35°	10514
40°	5813
45°	4845
50°	4418
55°	4215
60°	3922
65°	3561
70°	3210
75°	2907
80°	2628
85°	2547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	7.0
10°-20°	167.5	19.0
20°-30°	238.4	27.0
30°-40°	176.4	20.0
40°-50°	87.4	9.9
50°-60°	69.7	7.9
60°-70°	48.4	5.5
70°-80°	26.1	3.0
80°-90°	7.7	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°	468.0	53.0
0°-40°	644.4	72.9
0°-60°	801.5	90.7
0°-90°	883.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	673	
5°	661	62
15°	594	168
25°	525	238
35°	279	176
45°	111	87
55°	78	70
65°	49	48
75°	24	26
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	672.7
2.5°	669.8
5°	661.4
7.5°	648.4
10°	629.9
12.5°	610.9
15°	593.7
17.5°	577.1
20°	561.6
22.5°	546.1
25°	525.3
27.5°	495.1
30°	450.5
32.5°	382.2
35°	279.3
37.5°	190.7
40°	144.4
42.5°	123.6
45°	111.1
47.5°	101.0
50°	92.1
52.5°	84.4
55°	78.4
57.5°	71.3
60°	63.6
62.5°	55.8
65°	48.8
67.5°	41.6
70°	35.6
72.5°	29.8
75°	24.4
77.5°	19.6
80°	14.8
82.5°	10.8
85°	7.2
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)