

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: P583497

Luminaire Tested: **HC805D010-HM80520927-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583497  
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: HC805D010-HM80520927-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 572.7 lumens  
Efficiency: N/A  
Efficacy: 95.5 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

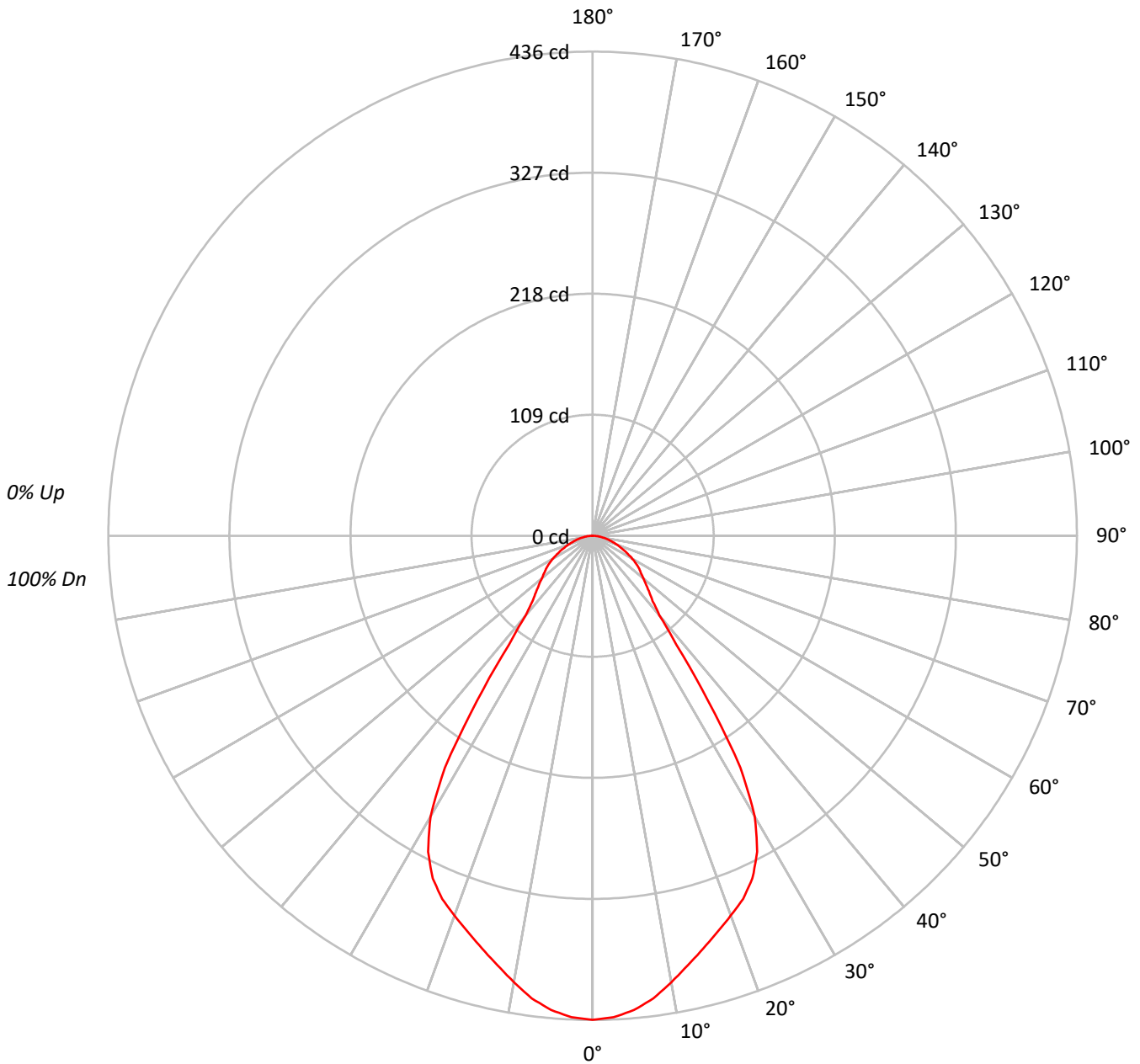
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	13442
5°	13267
10°	12782
15°	12281
20°	11941
25°	11582
30°	10394
35°	6814
40°	3768
45°	3144
50°	2864
55°	2736
60°	2541
65°	2306
70°	2083
75°	1882
80°	1705
85°	1663



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	7.0
10°-20°	108.5	19.0
20°-30°	154.5	27.0
30°-40°	114.4	20.0
40°-50°	56.7	9.9
50°-60°	45.2	7.9
60°-70°	31.3	5.5
70°-80°	16.9	3.0
80°-90°	5.0	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°	303.3	53.0
0°-40°	417.6	72.9
0°-60°	519.5	90.7
0°-90°	572.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	572.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	436	
5°	429	40
15°	385	109
25°	340	154
35°	181	114
45°	72	57
55°	51	45
65°	32	31
75°	16	17
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	435.9
2.5°	434.0
5°	428.6
7.5°	420.1
10°	408.2
12.5°	396.0
15°	384.7
17.5°	373.9
20°	363.9
22.5°	354.0
25°	340.4
27.5°	320.8
30°	291.9
32.5°	247.7
35°	181.0
37.5°	123.7
40°	93.6
42.5°	80.1
45°	72.1
47.5°	65.5
50°	59.7
52.5°	54.7
55°	50.9
57.5°	46.2
60°	41.2
62.5°	36.1
65°	31.6
67.5°	26.9
70°	23.1
72.5°	19.3
75°	15.8
77.5°	12.7
80°	9.6
82.5°	6.9
85°	4.7
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)