

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: P583446

Luminaire Tested: **HC805D010-HM80520830-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583446  
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-HM80520830-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 701.5 lumens  
Efficiency: N/A  
Efficacy: 116.9 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

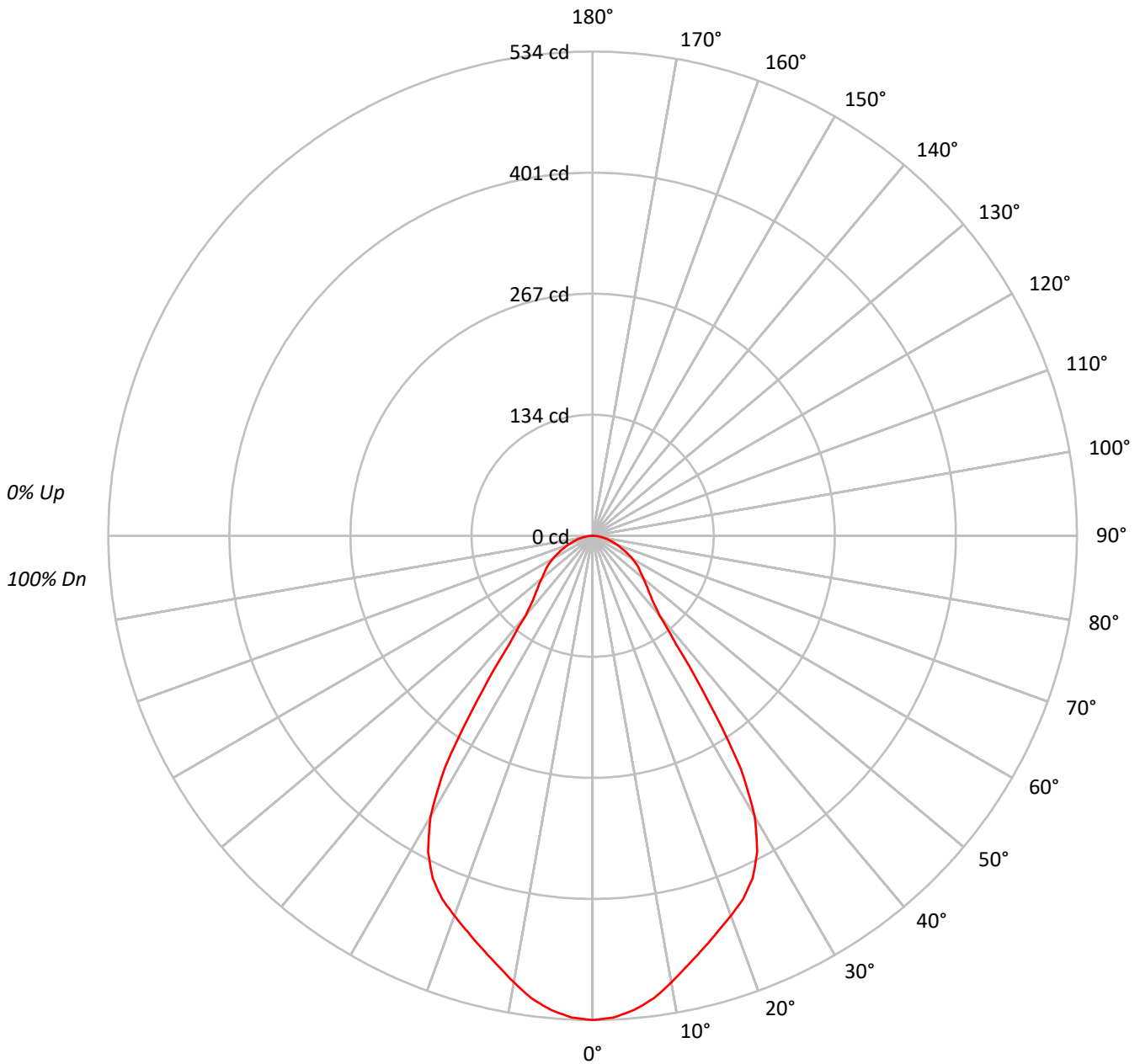
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16467
5°	16254
10°	15659
15°	15046
20°	14629
25°	14188
30°	12729
35°	8346
40°	4617
45°	3846
50°	3507
55°	3344
60°	3114
65°	2824
70°	2542
75°	2311
80°	2113
85°	1981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	7.0
10°-20°	133.0	19.0
20°-30°	189.2	27.0
30°-40°	140.0	20.0
40°-50°	69.4	9.9
50°-60°	55.3	7.9
60°-70°	38.4	5.5
70°-80°	20.7	3.0
80°-90°	6.1	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°	371.5	53.0
0°-40°	511.6	72.9
0°-60°	636.3	90.7
0°-90°	701.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	534	
5°	525	49
15°	471	133
25°	417	189
35°	222	140
45°	88	69
55°	62	55
65°	39	38
75°	19	21
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	534.0
2.5°	531.7
5°	525.1
7.5°	514.7
10°	500.1
12.5°	485.0
15°	471.3
17.5°	458.1
20°	445.8
22.5°	433.6
25°	417.0
27.5°	393.0
30°	357.5
32.5°	303.3
35°	221.7
37.5°	151.4
40°	114.7
42.5°	98.2
45°	88.2
47.5°	80.2
50°	73.1
52.5°	67.0
55°	62.2
57.5°	56.6
60°	50.5
62.5°	44.3
65°	38.7
67.5°	33.0
70°	28.2
72.5°	23.6
75°	19.4
77.5°	15.6
80°	11.9
82.5°	8.5
85°	5.6
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)