

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: P593457

Luminaire Tested: **HC805D010-HM80520850-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC805D010-HM80520850-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 706.1 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

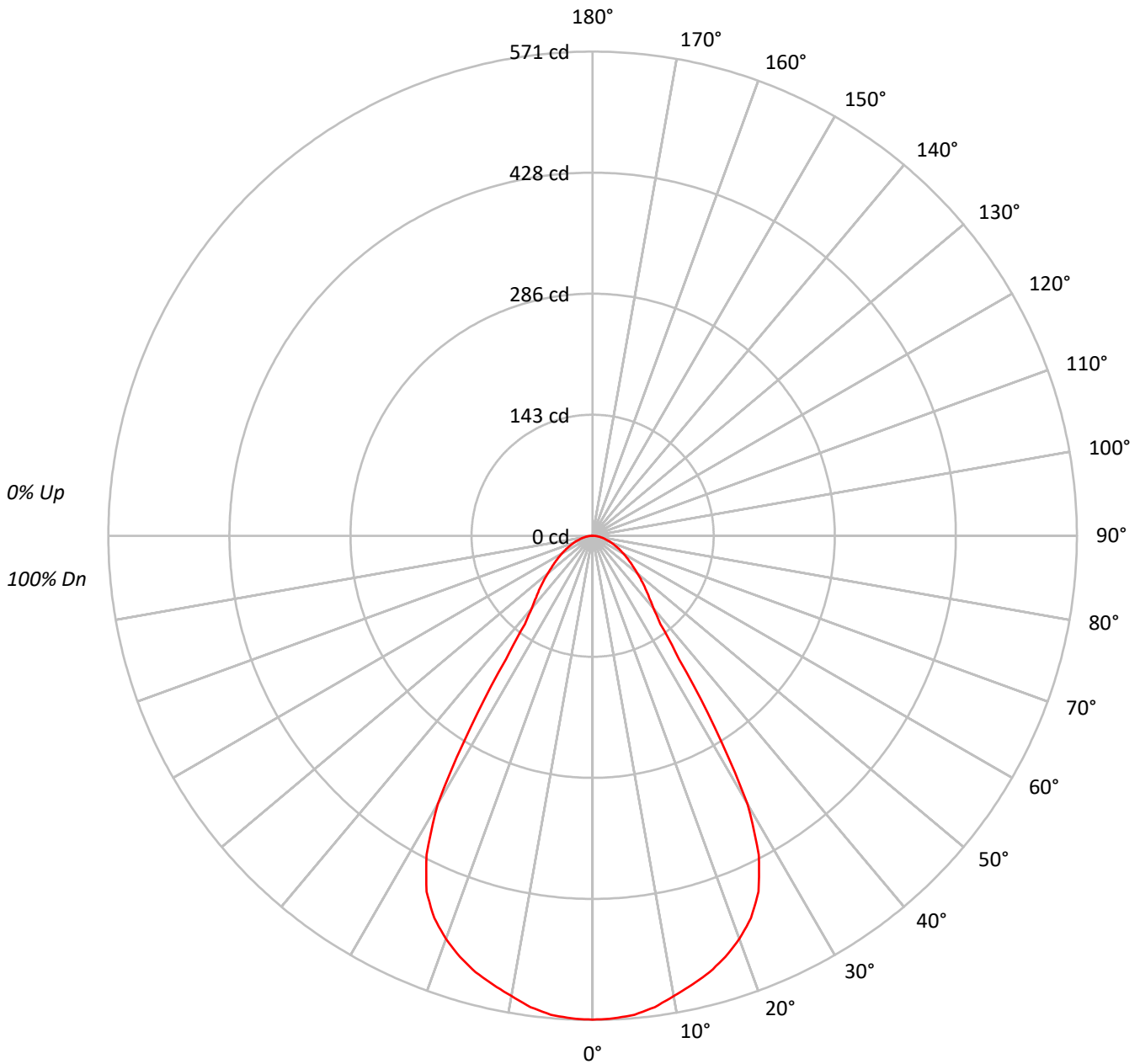
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593457

CATALOG NUMBER: HC805D010-HM80520850-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593457

CATALOG NUMBER: HC805D010-HM80520850-81NDW

**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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	17598
5°	17551
10°	17259
15°	17009
20°	16601
25°	15757
30°	13000
35°	6693
40°	4480
45°	3842
50°	3315
55°	2887
60°	2572
65°	2306
70°	2092
75°	1882
80°	1687
85°	1698



TEST NUMBER: P593457

CATALOG NUMBER: HC805D010-HM80520850-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	7.6
10°-20°	149.9	21.2
20°-30°	207.7	29.4
30°-40°	124.7	17.7
40°-50°	68.3	9.7
50°-60°	48.5	6.9
60°-70°	31.5	4.5
70°-80°	16.8	2.4
80°-90°	5.0	0.7
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°	411.2	58.2
0°-40°	535.9	75.9
0°-60°	652.7	92.4
0°-90°	706.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	706.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	571	
5°	567	54
15°	533	150
25°	463	208
35°	178	125
45°	88	68
55°	54	49
65°	32	31
75°	16	17
85°	5	5
90°	0	



TEST NUMBER: P593457

CATALOG NUMBER: HC805D010-HM80520850-81NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	570.7
2.5°	569.7
5°	567.0
7.5°	560.7
10°	551.2
12.5°	542.2
15°	532.8
17.5°	520.7
20°	505.9
22.5°	487.9
25°	463.1
27.5°	424.1
30°	365.1
32.5°	267.4
35°	177.8
37.5°	131.3
40°	111.3
42.5°	98.6
45°	88.1
47.5°	78.0
50°	69.1
52.5°	60.7
55°	53.7
57.5°	47.5
60°	41.7
62.5°	36.4
65°	31.6
67.5°	26.9
70°	23.2
72.5°	19.0
75°	15.8
77.5°	12.7
80°	9.5
82.5°	6.8
85°	4.8
87.5°	2.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)