

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: P593450

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC805D010-HM80520850-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 778.9 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

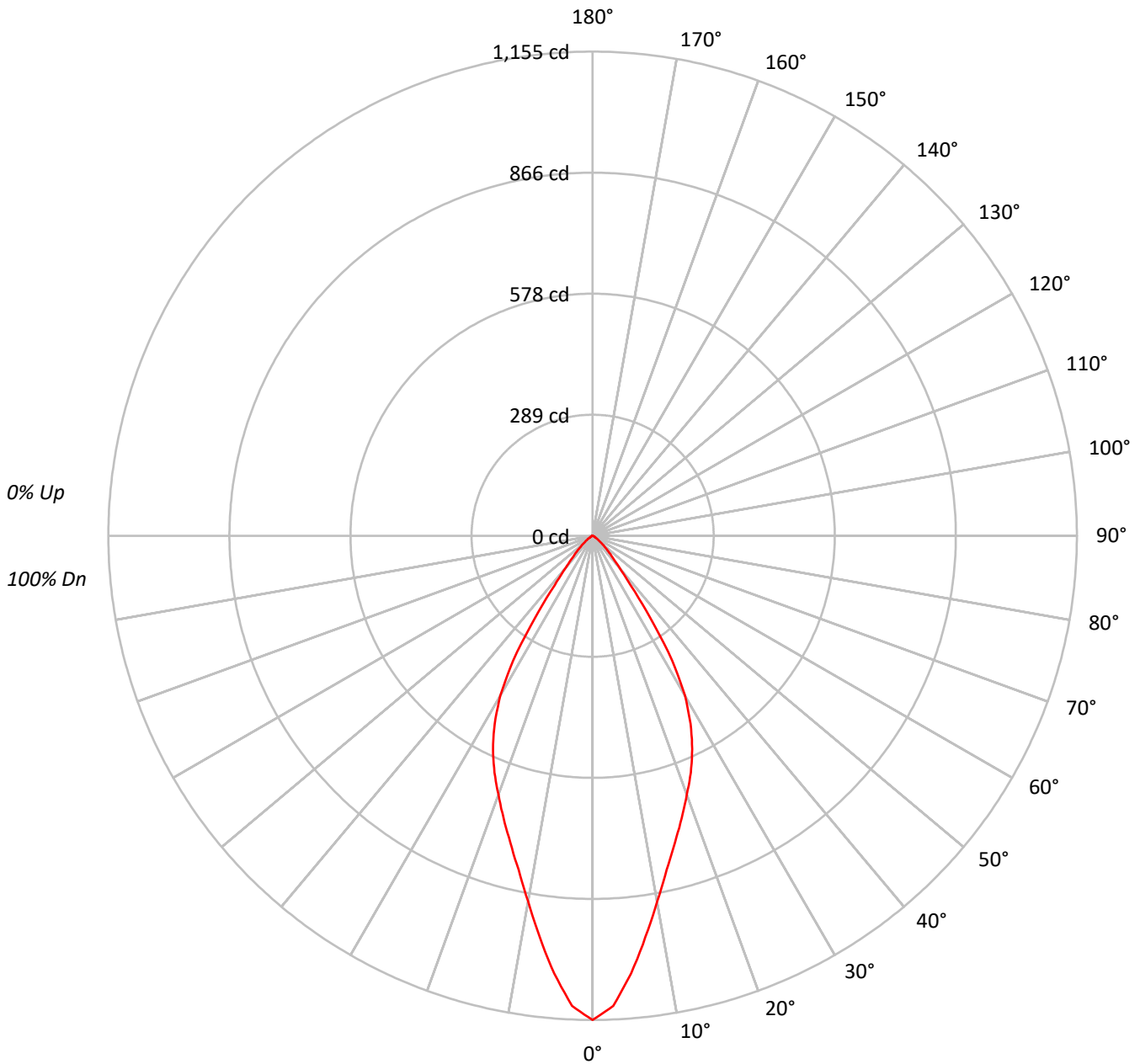
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593450

CATALOG NUMBER: HC805D010-HM80520850-81MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P593450

CATALOG NUMBER: HC805D010-HM80520850-81MDH

**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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

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

	0°
0°	35619
5°	32458
10°	27733
15°	24186
20°	21556
25°	19122
30°	15656
35°	8989
40°	3989
45°	2324
50°	1338
55°	763
60°	419
65°	270
70°	198
75°	131
80°	89
85°	177



TEST NUMBER: P593450

CATALOG NUMBER: HC805D010-HM80520850-81MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.9	12.2
10°-20°	213.0	27.3
20°-30°	254.9	32.7
30°-40°	154.2	19.8
40°-50°	43.2	5.5
50°-60°	13.4	1.7
60°-70°	3.8	0.5
70°-80°	1.1	0.1
80°-90°	0.3	0.0
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°	562.8	72.3
0°-40°	717.0	92.1
0°-60°	773.6	99.3
0°-90°	778.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1155	
5°	1049	95
15°	758	213
25°	562	255
35°	239	154
45°	53	43
55°	14	13
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P593450

CATALOG NUMBER: HC805D010-HM80520850-81MDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1155.1
2.5°	1122.4
5°	1048.6
7.5°	965.4
10°	885.7
12.5°	816.1
15°	757.6
17.5°	706.0
20°	656.9
22.5°	611.5
25°	562.0
27.5°	506.1
30°	439.7
32.5°	353.7
35°	238.8
37.5°	148.7
40°	99.1
42.5°	71.2
45°	53.3
47.5°	39.0
50°	27.9
52.5°	19.5
55°	14.2
57.5°	9.5
60°	6.8
62.5°	4.8
65°	3.7
67.5°	2.6
70°	2.2
72.5°	1.1
75°	1.1
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)