

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: P583595

Luminaire Tested: **HC807D010-HM80520835-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC807D010-HM80520835-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 959.1 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

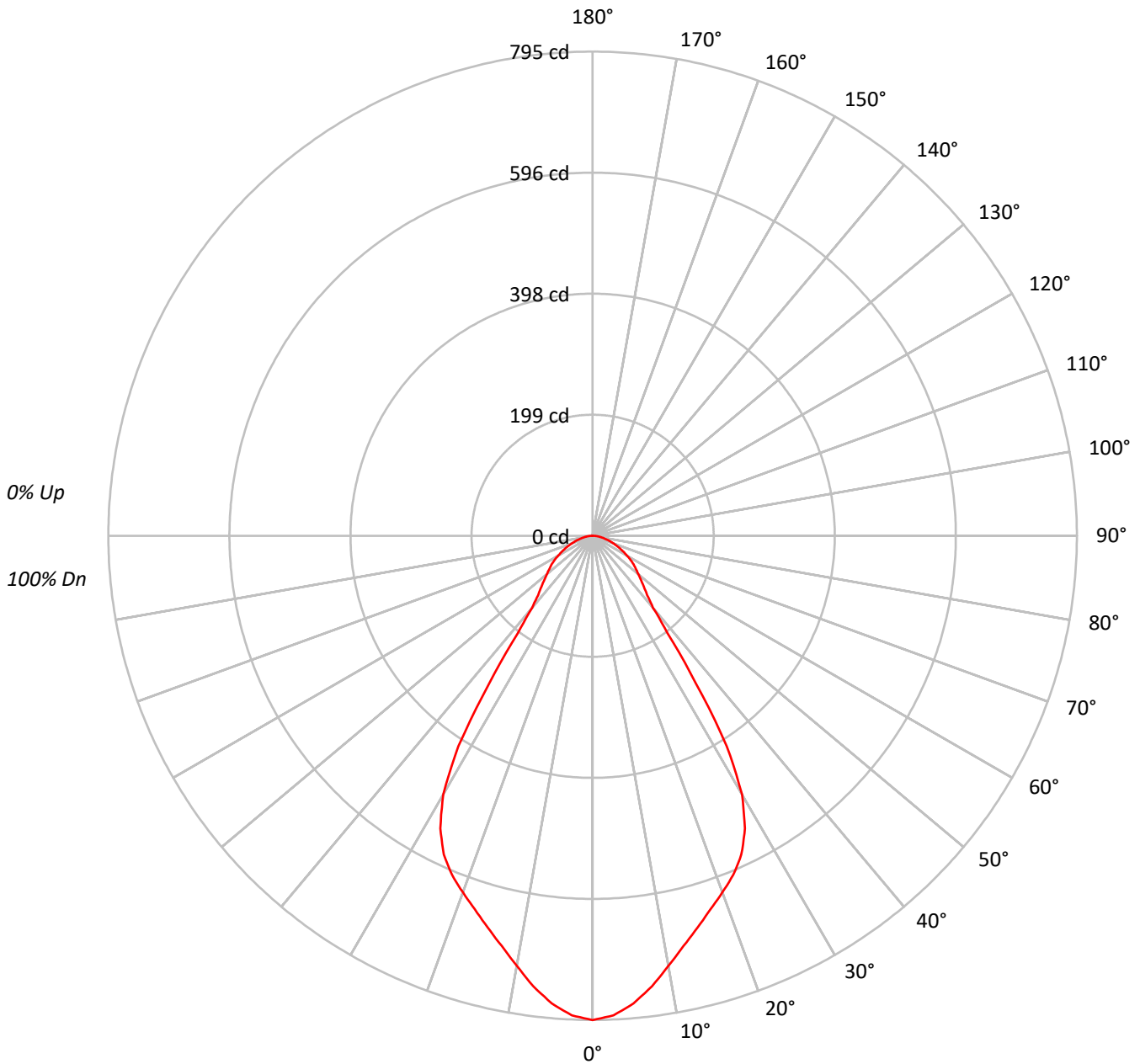
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583595

CATALOG NUMBER: HC807D010-HM80520835-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583595

CATALOG NUMBER: HC807D010-HM80520835-81MDW

**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	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

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

	0°
0°	24524
5°	23856
10°	22448
15°	21252
20°	20444
25°	19656
30°	17454
35°	11116
40°	6207
45°	5194
50°	4692
55°	4419
60°	4033
65°	3634
70°	3210
75°	2859
80°	2522
85°	2300



TEST NUMBER: P583595

CATALOG NUMBER: HC807D010-HM80520835-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	7.5
10°-20°	187.8	19.6
20°-30°	261.9	27.3
30°-40°	188.5	19.7
40°-50°	93.4	9.7
50°-60°	73.1	7.6
60°-70°	49.5	5.2
70°-80°	25.7	2.7
80°-90°	7.4	0.8
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°	521.5	54.4
0°-40°	710.0	74.0
0°-60°	876.5	91.4
0°-90°	959.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	795	
5°	771	72
15°	666	188
25°	578	262
35°	295	188
45°	119	93
55°	82	73
65°	50	49
75°	24	26
85°	6	7
90°	0	



TEST NUMBER: P583595

CATALOG NUMBER: HC807D010-HM80520835-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	795.3
2.5°	788.1
5°	770.7
7.5°	746.0
10°	716.9
12.5°	689.8
15°	665.7
17.5°	643.0
20°	623.0
22.5°	602.9
25°	577.7
27.5°	541.5
30°	490.2
32.5°	409.9
35°	295.3
37.5°	201.4
40°	154.2
42.5°	132.8
45°	119.1
47.5°	107.6
50°	97.8
52.5°	89.4
55°	82.2
57.5°	73.9
60°	65.4
62.5°	57.0
65°	49.8
67.5°	42.8
70°	35.6
72.5°	29.8
75°	24.0
77.5°	18.8
80°	14.2
82.5°	10.4
85°	6.5
87.5°	3.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)