

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: P583605

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC807D010-HM80520835-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

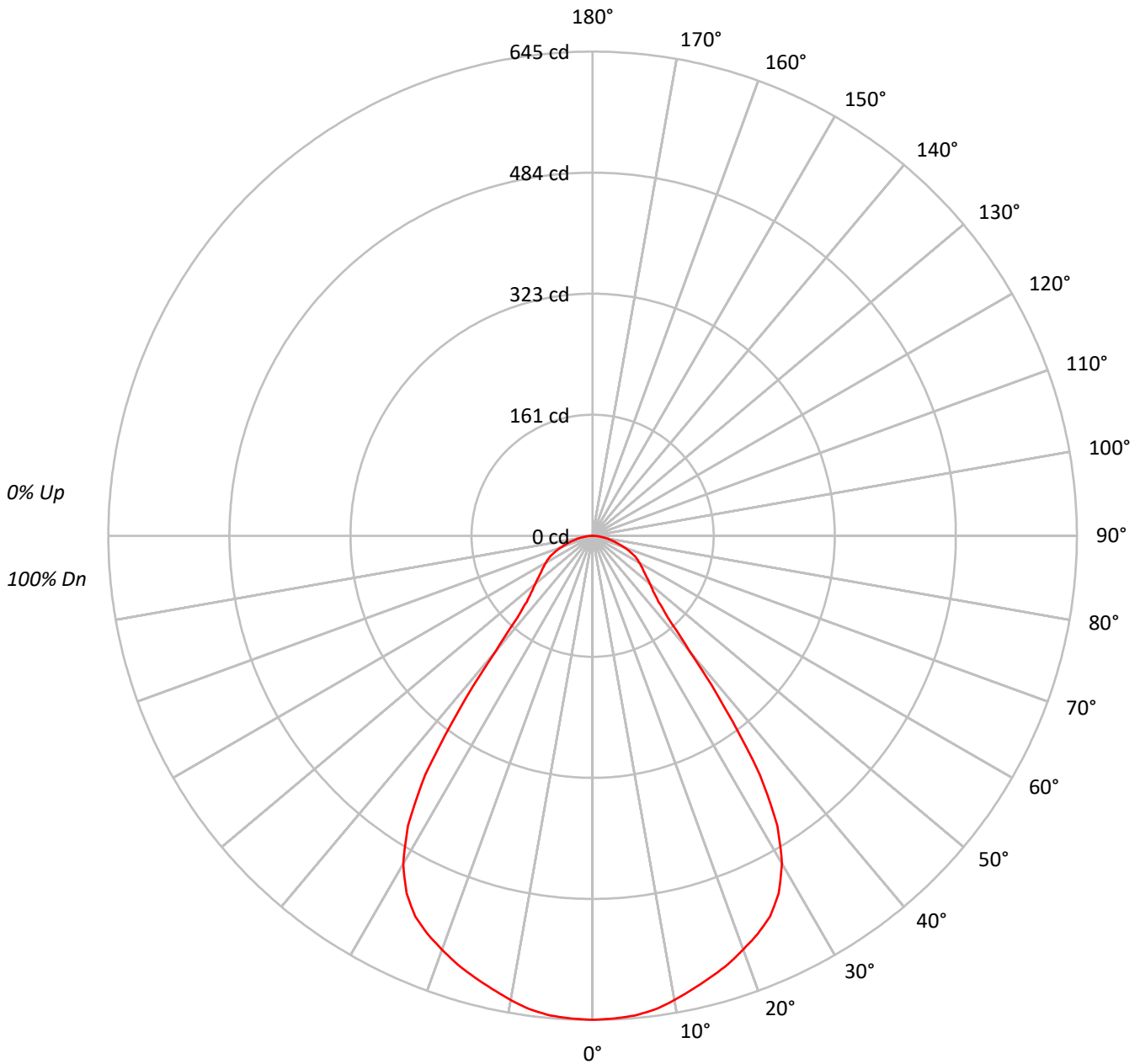
Lumens per Lamp: N/A  
Luminaire Lumens: 994.7 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P583605  
CATALOG NUMBER: HC807D010-HM80520835-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583605

CATALOG NUMBER: HC807D010-HM80520835-81WDW

**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	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	19883
5°	19860
10°	19667
15°	19429
20°	19249
25°	19033
30°	17960
35°	14625
40°	8083
45°	5394
50°	4783
55°	4489
60°	4428
65°	4392
70°	3967
75°	3550
80°	3090
85°	2760



TEST NUMBER: P583605

CATALOG NUMBER: HC807D010-HM80520835-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	6.1
10°-20°	171.8	17.3
20°-30°	255.4	25.7
30°-40°	230.0	23.1
40°-50°	102.0	10.3
50°-60°	75.5	7.6
60°-70°	58.7	5.9
70°-80°	31.8	3.2
80°-90°	8.7	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°	488.0	49.1
0°-40°	718.0	72.2
0°-60°	895.5	90.0
0°-90°	994.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	994.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	645	
5°	642	61
15°	609	172
25°	559	255
35°	388	230
45°	124	102
55°	84	75
65°	60	59
75°	30	32
85°	8	9
90°	0	



TEST NUMBER: P583605

CATALOG NUMBER: HC807D010-HM80520835-81WDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	644.8
2.5°	643.6
5°	641.6
7.5°	636.5
10°	628.1
12.5°	618.3
15°	608.6
17.5°	598.9
20°	586.6
22.5°	574.3
25°	559.4
27.5°	536.8
30°	504.4
32.5°	457.8
35°	388.5
37.5°	290.0
40°	200.8
42.5°	148.3
45°	123.7
47.5°	109.5
50°	99.7
52.5°	90.7
55°	83.5
57.5°	77.7
60°	71.8
62.5°	66.7
65°	60.2
67.5°	52.5
70°	44.0
72.5°	36.9
75°	29.8
77.5°	23.3
80°	17.4
82.5°	12.3
85°	7.8
87.5°	3.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)