

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: P583672

Luminaire Tested: **HC807D010-HM80520935-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC807D010-HM80520935-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 945.6 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

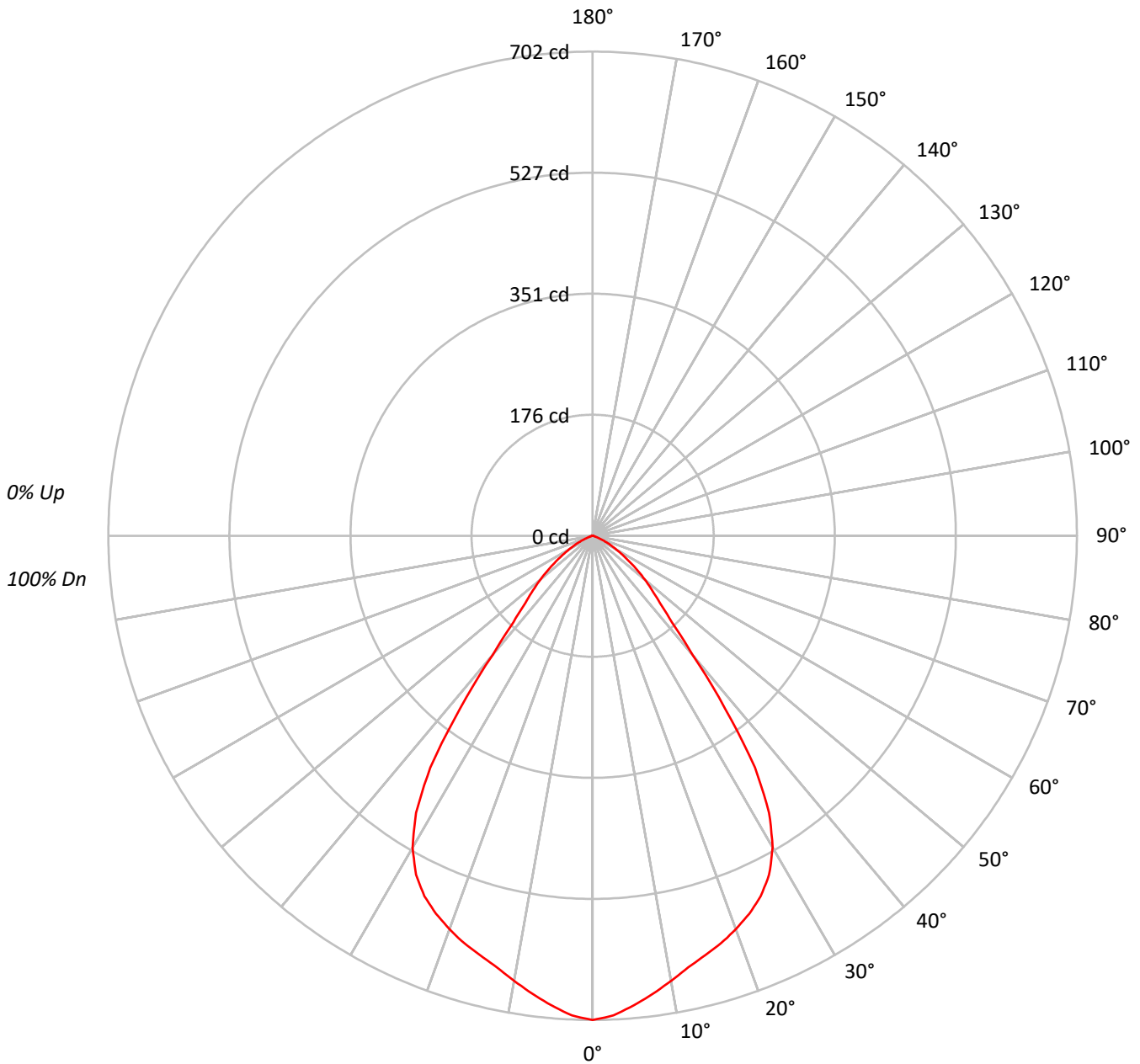
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583672

CATALOG NUMBER: HC807D010-HM80520935-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P583672

CATALOG NUMBER: HC807D010-HM80520935-81WDH

**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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

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

	0°
0°	21650
5°	21157
10°	20513
15°	20096
20°	19916
25°	19618
30°	18583
35°	15438
40°	9093
45°	6014
50°	4735
55°	3484
60°	2418
65°	1474
70°	649
75°	286
80°	213
85°	0



TEST NUMBER: P583672

CATALOG NUMBER: HC807D010-HM80520935-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	6.8
10°-20°	178.0	18.8
20°-30°	263.7	27.9
30°-40°	243.6	25.8
40°-50°	112.4	11.9
50°-60°	59.1	6.2
60°-70°	20.9	2.2
70°-80°	3.3	0.4
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°	506.0	53.5
0°-40°	749.6	79.3
0°-60°	921.1	97.4
0°-90°	945.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	702	
5°	684	64
15°	630	178
25°	577	264
35°	410	244
45°	138	112
55°	65	59
65°	20	21
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P583672

CATALOG NUMBER: HC807D010-HM80520935-81WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	702.1
2.5°	696.1
5°	683.5
7.5°	669.9
10°	655.1
12.5°	640.8
15°	629.5
17.5°	619.4
20°	606.9
22.5°	593.2
25°	576.6
27.5°	554.0
30°	521.9
32.5°	476.1
35°	410.1
37.5°	315.0
40°	225.9
42.5°	169.5
45°	137.9
47.5°	117.1
50°	98.7
52.5°	80.8
55°	64.8
57.5°	51.1
60°	39.2
62.5°	29.8
65°	20.2
67.5°	11.8
70°	7.2
72.5°	4.2
75°	2.4
77.5°	1.8
80°	1.2
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)