

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: P583707

Luminaire Tested: **HC810D010-HM80520827-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583707  
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: HC810D010-HM80520827-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1196.2 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

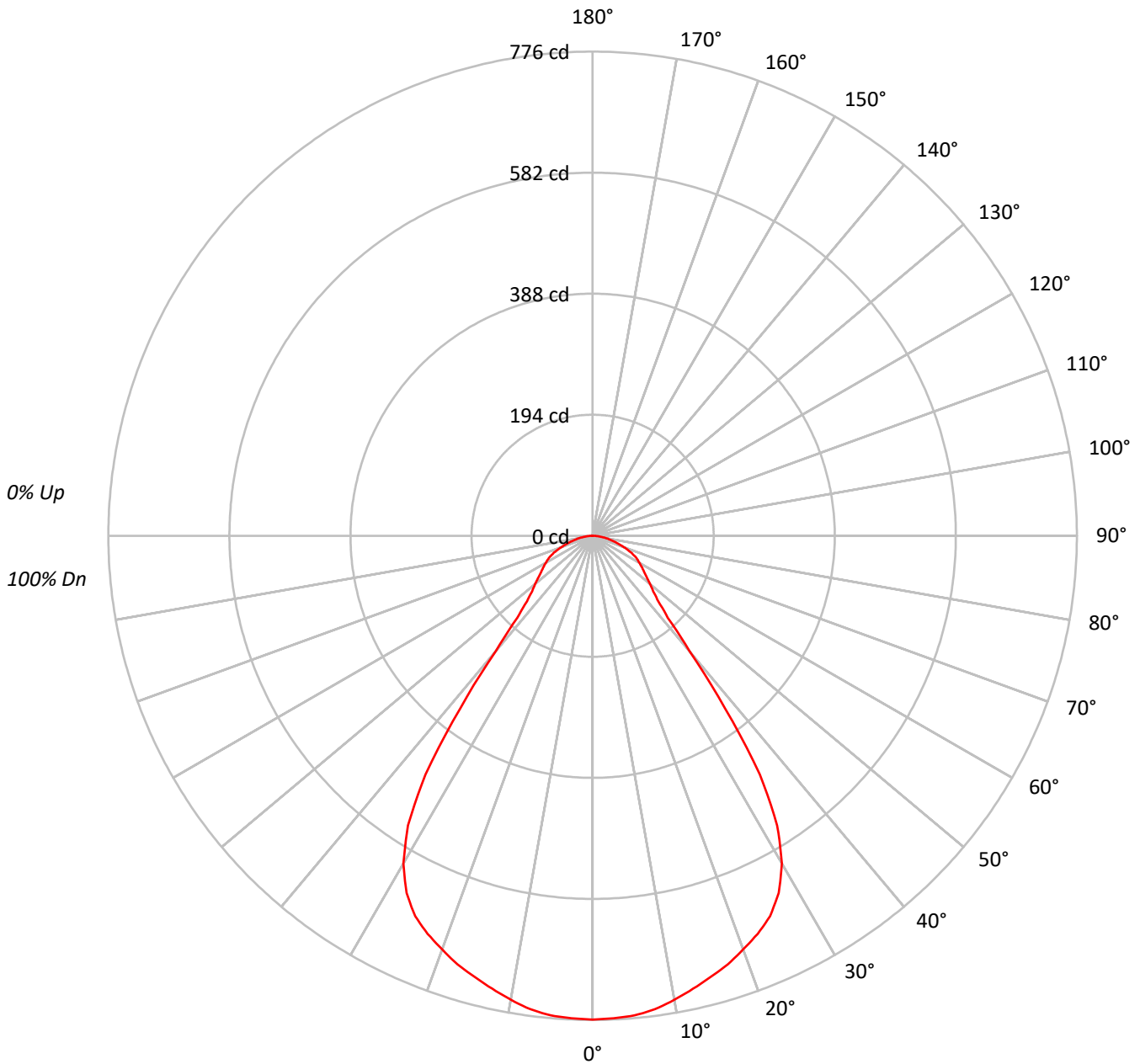
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583707

CATALOG NUMBER: HC810D010-HM80520827-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583707

CATALOG NUMBER: HC810D010-HM80520827-81WDW

**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°	23914
5°	23887
10°	23647
15°	23365
20°	23151
25°	22891
30°	21595
35°	17587
40°	9717
45°	6485
50°	5757
55°	5403
60°	5329
65°	5283
70°	4769
75°	4265
80°	3729
85°	3326



TEST NUMBER: P583707

CATALOG NUMBER: HC810D010-HM80520827-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	6.1
10°-20°	206.7	17.3
20°-30°	307.1	25.7
30°-40°	276.5	23.1
40°-50°	122.6	10.2
50°-60°	90.8	7.6
60°-70°	70.6	5.9
70°-80°	38.3	3.2
80°-90°	10.5	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°	586.9	49.1
0°-40°	863.4	72.2
0°-60°	1076.8	90.0
0°-90°	1196.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	776	
5°	772	73
15°	732	207
25°	673	307
35°	467	277
45°	149	123
55°	100	91
65°	72	71
75°	36	38
85°	9	10
90°	0	



TEST NUMBER: P583707

CATALOG NUMBER: HC810D010-HM80520827-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	775.5
2.5°	774.0
5°	771.7
7.5°	765.4
10°	755.2
12.5°	743.6
15°	731.9
17.5°	720.2
20°	705.5
22.5°	690.7
25°	672.8
27.5°	645.5
30°	606.5
32.5°	550.5
35°	467.2
37.5°	348.8
40°	241.4
42.5°	178.3
45°	148.7
47.5°	131.6
50°	120.0
52.5°	109.0
55°	100.5
57.5°	93.4
60°	86.4
62.5°	80.2
65°	72.4
67.5°	63.1
70°	52.9
72.5°	44.4
75°	35.8
77.5°	28.0
80°	21.0
82.5°	14.8
85°	9.4
87.5°	3.8
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)