

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: P583712

Luminaire Tested: **HC810D010-HM80520830-81MDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520830-81MDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1251.7 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

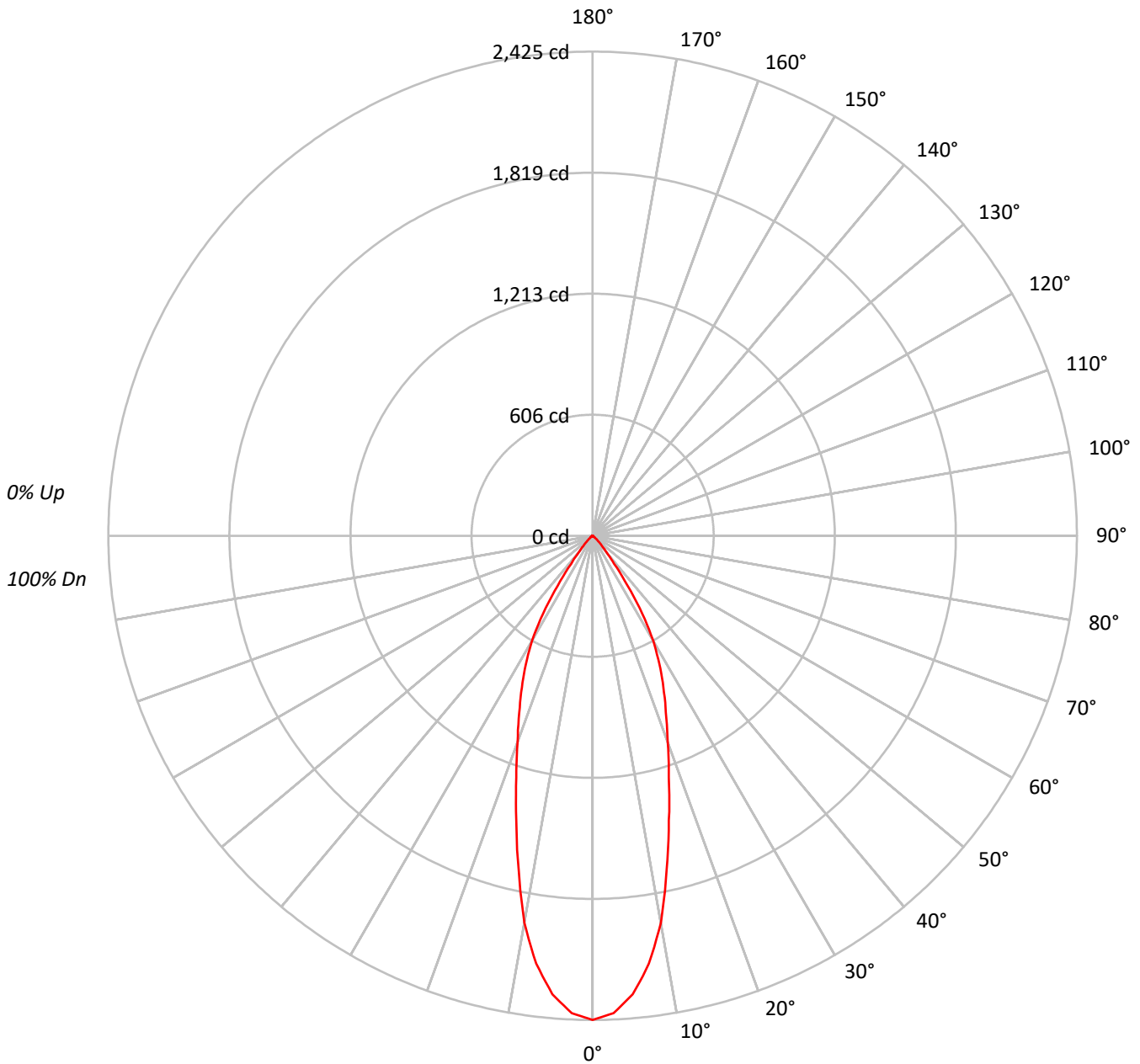
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583712

CATALOG NUMBER: HC810D010-HM80520830-81MDC

Luminous Intensity Polar Plot





TEST NUMBER: P583712

CATALOG NUMBER: HC810D010-HM80520830-81MDC

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	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75			
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71			
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67			
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	74784
5°	71355
10°	61603
15°	47107
20°	36044
25°	28519
30°	21542
35°	11463
40°	4364
45°	2098
50°	892
55°	376
60°	142
65°	117
70°	63
75°	0
80°	0
85°	0



TEST NUMBER: P583712

CATALOG NUMBER: HC810D010-HM80520830-81MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	16.7
10°-20°	411.9	32.9
20°-30°	383.7	30.7
30°-40°	198.0	15.8
40°-50°	40.3	3.2
50°-60°	6.9	0.6
60°-70°	1.3	0.1
70°-80°	0.3	0.0
80°-90°	0.0	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°	1004.9	80.3
0°-40°	1202.8	96.1
0°-60°	1250.1	99.9
0°-90°	1251.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2425	
5°	2305	209
15°	1476	412
25°	838	384
35°	304	198
45°	48	40
55°	7	7
65°	2	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P583712

CATALOG NUMBER: HC810D010-HM80520830-81MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2425.2
2.5°	2392.7
5°	2305.2
7.5°	2161.1
10°	1967.4
12.5°	1713.3
15°	1475.6
17.5°	1269.6
20°	1098.4
22.5°	959.0
25°	838.2
27.5°	723.5
30°	605.0
32.5°	464.0
35°	304.5
37.5°	176.6
40°	108.4
42.5°	71.3
45°	48.1
47.5°	30.2
50°	18.6
52.5°	10.8
55°	7.0
57.5°	3.1
60°	2.3
62.5°	1.6
65°	1.6
67.5°	0.7
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)