

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: P584762

Luminaire Tested: **HCC8W45D010BZ-HM82555940-81MDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584762
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: HCC8W45D010BZ-HM82555940-81MDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5678.4 lumens
Efficiency: N/A
Efficacy: 129.1 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

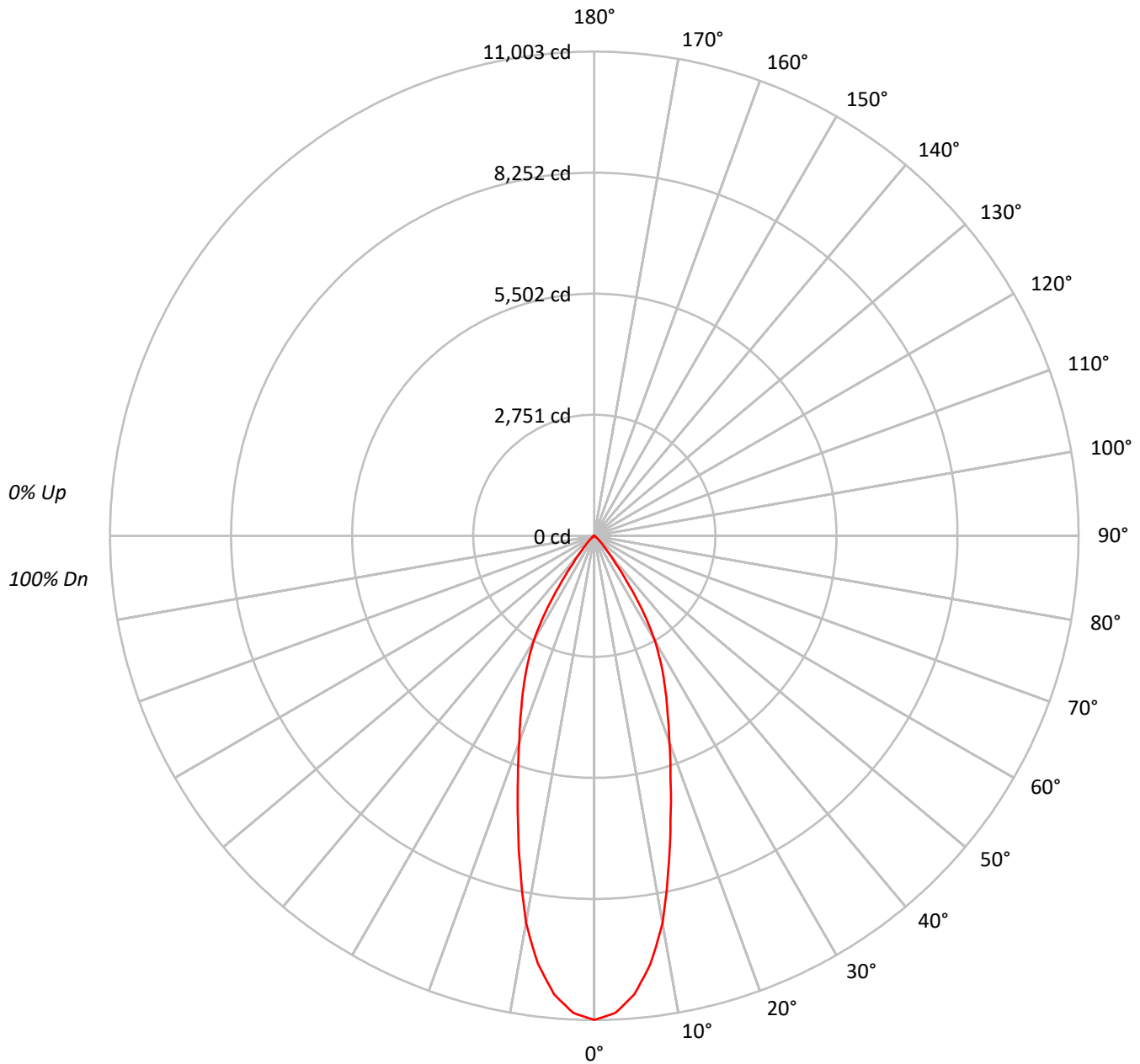
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584762

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81MDC

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584762

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81MDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	104	98	94	90	102	97	93	90	94	91	88		92	89	87		90
4	100	93	88	84	98	92	87	83	90	86	82		88	84	82		86
5	95	88	82	78	94	87	82	78	85	81	77		83	80	77		82
6	91	83	78	74	90	82	77	74	81	76	73		79	76	73		78
7	87	79	73	70	86	78	73	69	77	72	69		76	72	69		75
8	84	75	70	66	82	74	69	66	73	69	65		72	68	65		71
9	80	71	66	62	79	71	66	62	70	65	62		69	65	62		68
10	77	68	63	59	76	68	63	59	67	62	59		66	62	59		65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	339280
5°	323718
10°	279485
15°	213710
20°	163519
25°	129370
30°	97723
35°	51990
40°	19805
45°	9498
50°	4044
55°	1704
60°	654
65°	511
70°	316
75°	0
80°	0
85°	0



TEST NUMBER: P584762

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	949.3	16.7
10°-20°	1868.9	32.9
20°-30°	1740.5	30.7
30°-40°	898.1	15.8
40°-50°	182.9	3.2
50°-60°	31.3	0.6
60°-70°	6.0	0.1
70°-80°	1.4	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°	4558.7	80.3
0°-40°	5456.8	96.1
0°-60°	5671.0	99.9
0°-90°	5678.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5678.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11003	
5°	10458	949
15°	6694	1869
25°	3802	1741
35°	1381	898
45°	218	183
55°	32	31
65°	7	6
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P584762

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	11002.6
2.5°	10855.1
5°	10458.0
7.5°	9804.4
10°	8925.8
12.5°	7773.2
15°	6694.3
17.5°	5759.7
20°	4983.0
22.5°	4350.4
25°	3802.3
27.5°	3282.2
30°	2744.5
32.5°	2104.9
35°	1381.1
37.5°	801.2
40°	492.0
42.5°	323.3
45°	217.8
47.5°	137.0
50°	84.3
52.5°	49.1
55°	31.7
57.5°	14.1
60°	10.6
62.5°	7.0
65°	7.0
67.5°	3.5
70°	3.5
72.5°	3.5
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)