

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: P584772

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010BZ-HM82555940-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE 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: 5903.4 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

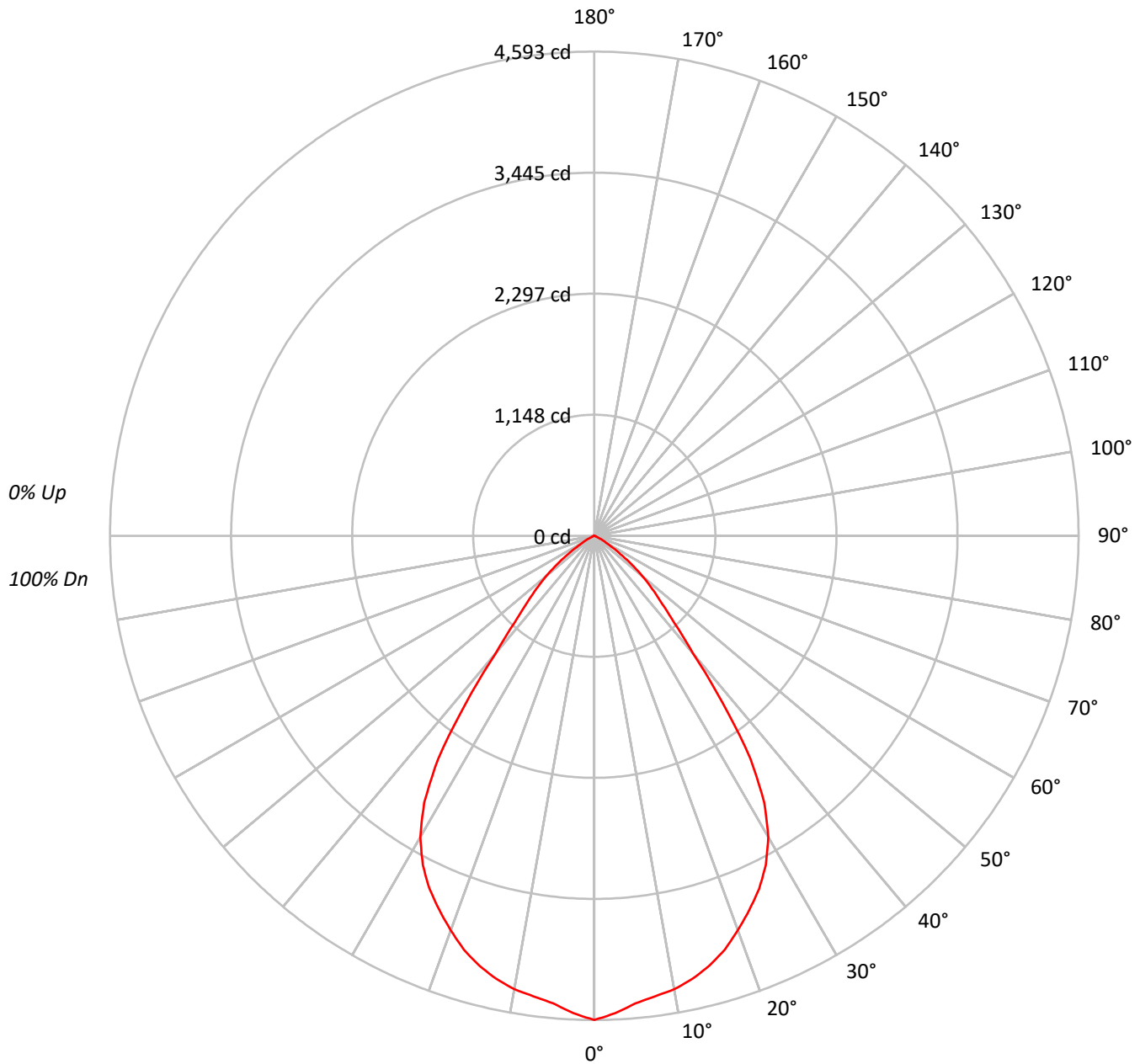
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584772

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81WDC

Luminous Intensity Polar Plot





TEST NUMBER: P584772

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81WDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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			100
1	113	110	107	105	110	108	105	103		104	102	100			100	98	97			92
2	106	101	96	93	104	99	95	92		96	92	90			93	90	88			84
3	100	93	87	83	98	91	86	82		89	84	81			86	83	79			77
4	94	86	79	75	92	84	79	74		82	77	73			80	76	72			70
5	88	79	72	68	87	78	72	67		76	71	67			74	70	66			64
6	83	73	66	62	82	72	66	61		71	65	61			69	64	61			59
7	78	68	61	57	77	67	61	56		66	60	56			65	60	56			54
8	74	63	57	52	73	63	56	52		62	56	52			60	55	51			50
9	70	59	53	48	69	59	52	48		58	52	48			57	51	48			46
10	66	55	49	45	65	55	49	45		54	48	44			53	48	44			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	141634
5°	137823
10°	136774
15°	134739
20°	130657
25°	125784
30°	117499
35°	97231
40°	58706
45°	39540
50°	28491
55°	16252
60°	7154
65°	2568
70°	956
75°	417
80°	0
85°	0



TEST NUMBER: P584772

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	7.2
10°-20°	1186.1	20.1
20°-30°	1692.0	28.7
30°-40°	1540.8	26.1
40°-50°	726.8	12.3
50°-60°	285.9	4.8
60°-70°	45.6	0.8
70°-80°	3.2	0.1
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°	3301.2	55.9
0°-40°	4841.9	82.0
0°-60°	5854.6	99.2
0°-90°	5903.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5903.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4593	
5°	4452	423
15°	4221	1186
25°	3697	1692
35°	2583	1541
45°	907	727
55°	302	286
65°	35	46
75°	4	3
85°	0	0
90°	0	



TEST NUMBER: P584772

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	4593.1
2.5°	4533.4
5°	4452.5
7.5°	4406.8
10°	4368.1
12.5°	4304.9
15°	4220.6
17.5°	4115.1
20°	3981.6
22.5°	3841.1
25°	3696.9
27.5°	3521.2
30°	3299.9
32.5°	3001.1
35°	2582.9
37.5°	1996.1
40°	1458.4
42.5°	1121.0
45°	906.7
47.5°	745.0
50°	593.9
52.5°	446.3
55°	302.3
57.5°	189.8
60°	116.0
62.5°	70.3
65°	35.2
67.5°	17.6
70°	10.6
72.5°	3.5
75°	3.5
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)