

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: P584688

Luminaire Tested: **HCC8W45D010MW-HM82555835-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584688
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: HCC8W45D010MW-HM82555835-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5423.5 lumens
Efficiency: N/A
Efficacy: 123.3 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

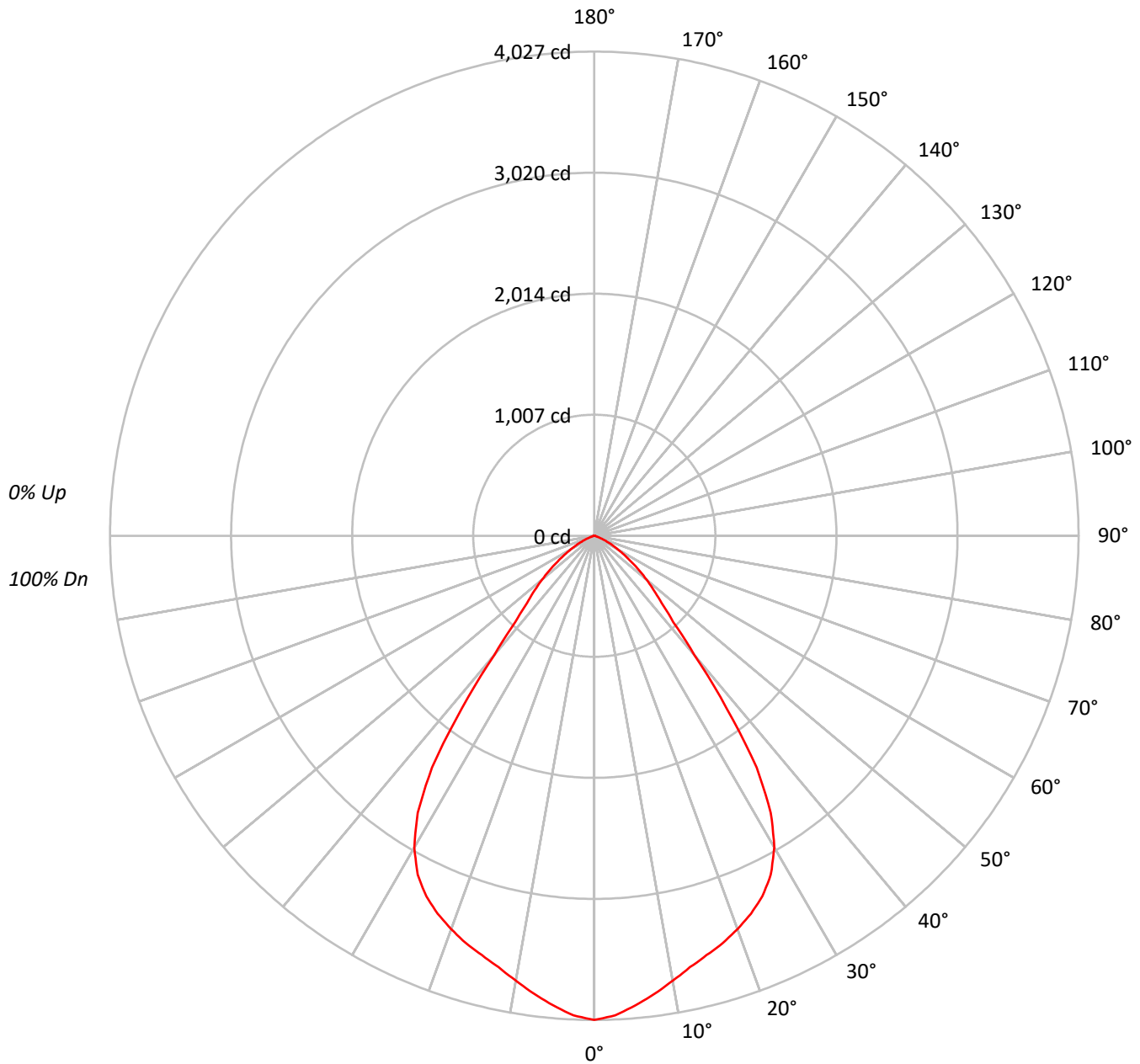
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584688

CATALOG NUMBER: HCC8W45D010MW-HM82555835-81WDH

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584688

CATALOG NUMBER: HCC8W45D010MW-HM82555835-81WDH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124169
5°	121368
10°	117645
15°	115265
20°	114233
25°	112525
30°	106589
35°	88562
40°	52153
45°	34495
50°	27153
55°	19978
60°	13876
65°	8457
70°	3688
75°	1620
80°	1208
85°	0



TEST NUMBER: P584688

CATALOG NUMBER: HCC8W45D010MW-HM82555835-81WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	6.8
10°-20°	1020.8	18.8
20°-30°	1512.4	27.9
30°-40°	1397.5	25.8
40°-50°	644.4	11.9
50°-60°	338.9	6.2
60°-70°	119.7	2.2
70°-80°	18.8	0.3
80°-90°	1.8	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°	2902.4	53.5
0°-40°	4299.8	79.3
0°-60°	5283.1	97.4
0°-90°	5423.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5423.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4027	
5°	3921	369
15°	3611	1021
25°	3307	1512
35°	2353	1397
45°	791	644
55°	372	339
65°	116	120
75°	14	19
85°	0	2
90°	0	



TEST NUMBER: P584688

CATALOG NUMBER: HCC8W45D010MW-HM82555835-81WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	4026.7
2.5°	3992.5
5°	3920.9
7.5°	3842.5
10°	3757.2
12.5°	3675.5
15°	3610.6
17.5°	3552.7
20°	3481.1
22.5°	3402.6
25°	3307.2
27.5°	3177.7
30°	2993.5
32.5°	2731.0
35°	2352.6
37.5°	1807.0
40°	1295.6
42.5°	971.7
45°	791.0
47.5°	671.7
50°	566.0
52.5°	463.7
55°	371.6
57.5°	293.2
60°	225.0
62.5°	170.4
65°	115.9
67.5°	68.2
70°	40.9
72.5°	23.8
75°	13.6
77.5°	10.2
80°	6.8
82.5°	3.4
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)