

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



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: P584886

Luminaire Tested: **HCC8W50D010MW-HM82555935-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010MW-HM82555935-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

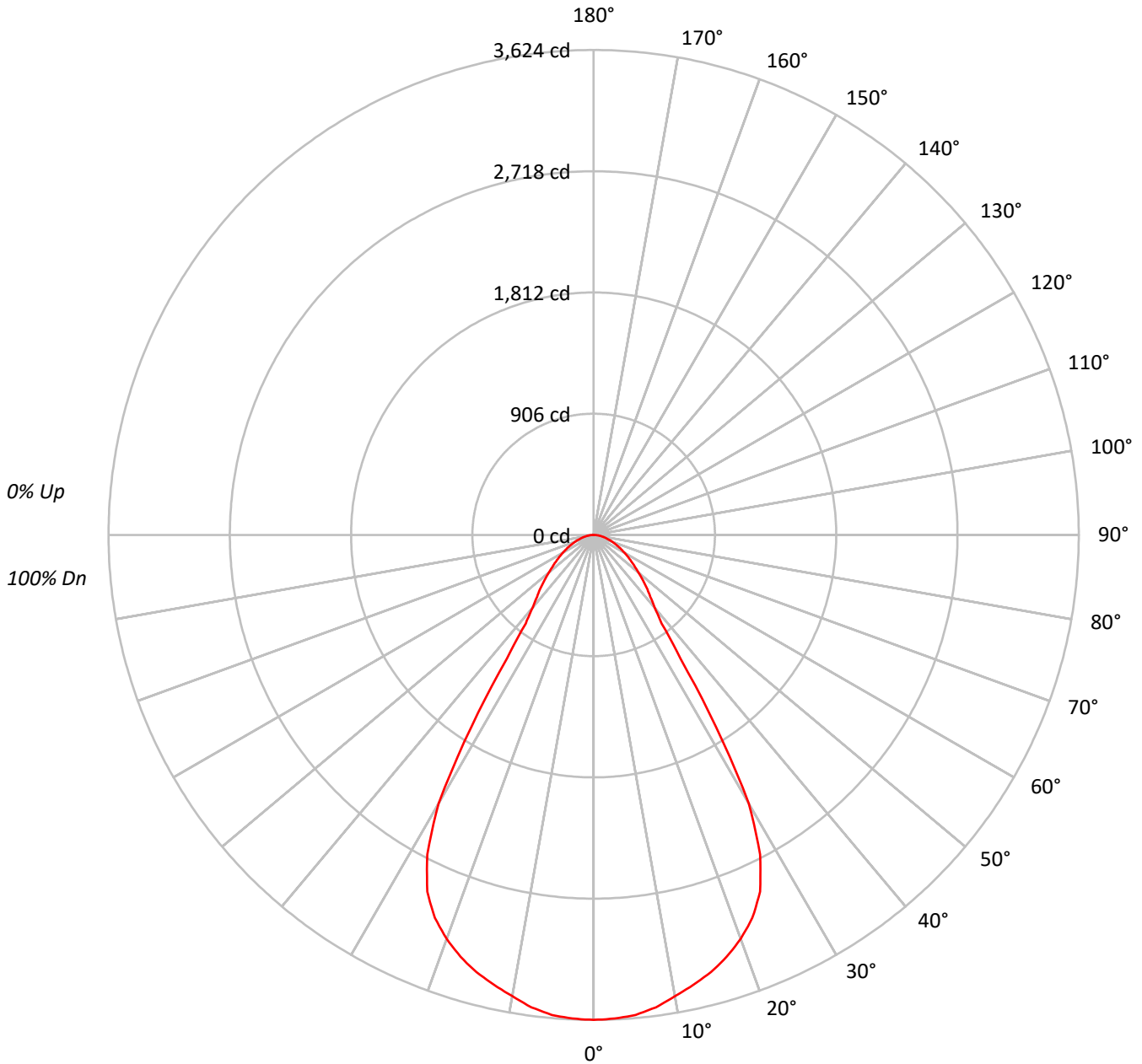
Lumens per Lamp: N/A
Luminaire Lumens: 4483.7 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P584886
CATALOG NUMBER: HCC8W50D010MW-HM82555935-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584886

CATALOG NUMBER: HCC8W50D010MW-HM82555935-81NDW

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111754
5°	111460
10°	109598
15°	107999
20°	105409
25°	100062
30°	82533
35°	42493
40°	28451
45°	24395
50°	21050
55°	18370
60°	16325
65°	14666
70°	13289
75°	11974
80°	10708
85°	10685



TEST NUMBER: P584886
 CATALOG NUMBER: HCC8W50D010MW-HM82555935-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	7.6
10°-20°	951.8	21.2
20°-30°	1318.8	29.4
30°-40°	792.1	17.7
40°-50°	433.7	9.7
50°-60°	308.1	6.9
60°-70°	200.0	4.5
70°-80°	106.9	2.4
80°-90°	31.9	0.7
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°	2611.0	58.2
0°-40°	3403.2	75.9
0°-60°	4144.9	92.4
0°-90°	4483.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4483.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3624	
5°	3601	340
15°	3383	952
25°	2941	1319
35°	1129	792
45°	559	434
55°	342	308
65°	201	200
75°	100	107
85°	30	32
90°	0	



TEST NUMBER: P584886
CATALOG NUMBER: HCC8W50D010MW-HM82555935-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3624.1
2.5°	3617.5
5°	3600.8
7.5°	3560.5
10°	3500.2
12.5°	3443.3
15°	3383.0
17.5°	3305.9
20°	3212.2
22.5°	3098.3
25°	2940.9
27.5°	2693.0
30°	2317.9
32.5°	1698.2
35°	1128.8
37.5°	834.1
40°	706.8
42.5°	626.4
45°	559.4
47.5°	495.8
50°	438.8
52.5°	385.2
55°	341.7
57.5°	301.5
60°	264.7
62.5°	231.1
65°	201.0
67.5°	170.8
70°	147.4
72.5°	120.6
75°	100.5
77.5°	80.4
80°	60.3
82.5°	43.5
85°	30.2
87.5°	13.4
90°	0.0

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

Scaled Data Report



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)