

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: P593796

Luminaire Tested: **HCC8W50D010BZ-HM82555850-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010BZ-HM82555850-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

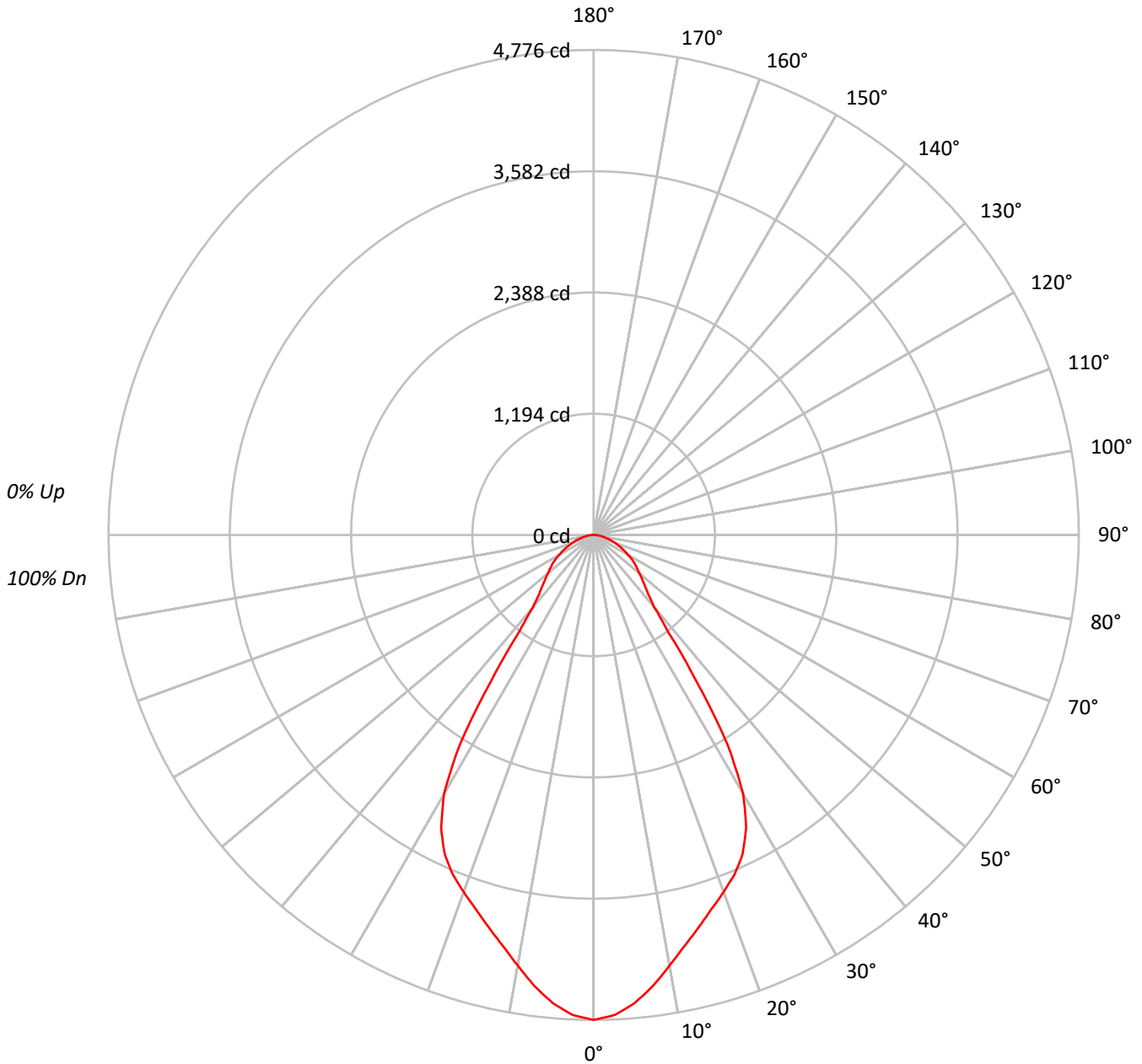
Lumens per Lamp: N/A
Luminaire Lumens: 5759.4 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593796
CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P593796

CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81MDW

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147268
5°	143256
10°	134804
15°	127633
20°	122772
25°	118030
30°	104826
35°	66758
40°	37259
45°	31202
50°	28174
55°	26553
60°	24225
65°	21853
70°	19285
75°	17145
80°	15201
85°	13763



TEST NUMBER: P593796
 CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	7.5
10°-20°	1127.5	19.6
20°-30°	1572.9	27.3
30°-40°	1131.8	19.7
40°-50°	560.9	9.7
50°-60°	438.9	7.6
60°-70°	297.1	5.2
70°-80°	154.3	2.7
80°-90°	44.4	0.8
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°	3131.9	54.4
0°-40°	4263.7	74.0
0°-60°	5263.5	91.4
0°-90°	5759.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5759.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4776	
5°	4628	431
15°	3998	1128
25°	3469	1573
35°	1773	1132
45°	716	561
55°	494	439
65°	300	297
75°	144	154
85°	39	44
90°	0	



TEST NUMBER: P593796
CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4775.8
2.5°	4733.0
5°	4628.0
7.5°	4480.2
10°	4305.2
12.5°	4141.9
15°	3998.0
17.5°	3861.8
20°	3741.3
22.5°	3620.7
25°	3469.0
27.5°	3251.2
30°	2944.0
32.5°	2461.8
35°	1773.4
37.5°	1209.4
40°	925.6
42.5°	797.3
45°	715.5
47.5°	645.6
50°	587.3
52.5°	536.7
55°	493.9
57.5°	443.4
60°	392.8
62.5°	342.3
65°	299.5
67.5°	256.7
70°	213.9
72.5°	178.9
75°	143.9
77.5°	112.8
80°	85.6
82.5°	62.2
85°	38.9
87.5°	19.4
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)