

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: P584883

Luminaire Tested: **HCC8W50D010MB-HM82555935-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584883
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: HCC8W50D010MB-HM82555935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

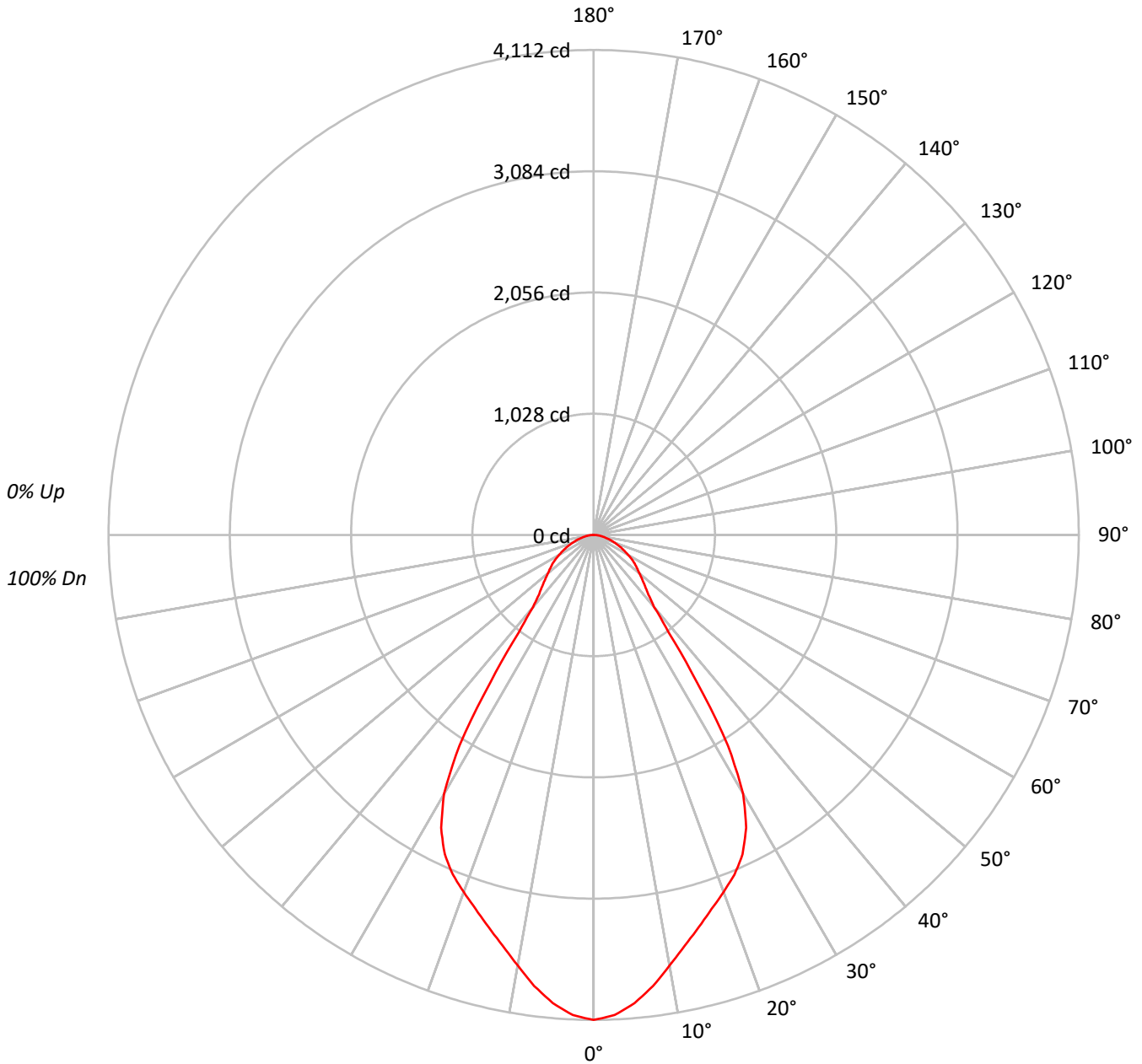
Lumens per Lamp: N/A
Luminaire Lumens: 4959.1 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584883
CATALOG NUMBER: HCC8W50D010MB-HM82555935-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584883
 CATALOG NUMBER: HCC8W50D010MB-HM82555935-81MDW

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	0	
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°	126805
5°	123349
10°	116074
15°	109899
20°	105711
25°	101630
30°	90263
35°	57479
40°	32082
45°	26872
50°	24255
55°	22865
60°	20858
65°	18818
70°	16598
75°	14762
80°	13070
85°	11817



TEST NUMBER: P584883
 CATALOG NUMBER: HCC8W50D010MB-HM82555935-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	7.5
10°-20°	970.8	19.6
20°-30°	1354.4	27.3
30°-40°	974.6	19.7
40°-50°	483.0	9.7
50°-60°	377.9	7.6
60°-70°	255.8	5.2
70°-80°	132.8	2.7
80°-90°	38.2	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°	2696.7	54.4
0°-40°	3671.3	74.0
0°-60°	4532.2	91.4
0°-90°	4959.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4959.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4112	
5°	3985	371
15°	3442	971
25°	2987	1354
35°	1527	975
45°	616	483
55°	425	378
65°	258	256
75°	124	133
85°	33	38
90°	0	



TEST NUMBER: P584883
CATALOG NUMBER: HCC8W50D010MB-HM82555935-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4112.2
2.5°	4075.4
5°	3984.9
7.5°	3857.7
10°	3707.0
12.5°	3566.3
15°	3442.5
17.5°	3325.2
20°	3221.4
22.5°	3117.6
25°	2987.0
27.5°	2799.5
30°	2535.0
32.5°	2119.7
35°	1526.9
37.5°	1041.5
40°	797.0
42.5°	686.4
45°	616.2
47.5°	555.9
50°	505.6
52.5°	462.1
55°	425.3
57.5°	381.8
60°	338.2
62.5°	294.7
65°	257.9
67.5°	221.1
70°	184.1
72.5°	154.1
75°	123.9
77.5°	97.1
80°	73.6
82.5°	53.5
85°	33.4
87.5°	16.7
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)