

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: P593816

Luminaire Tested: **HCC8W50D010MB-HM82555950-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010MB-HM82555950-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

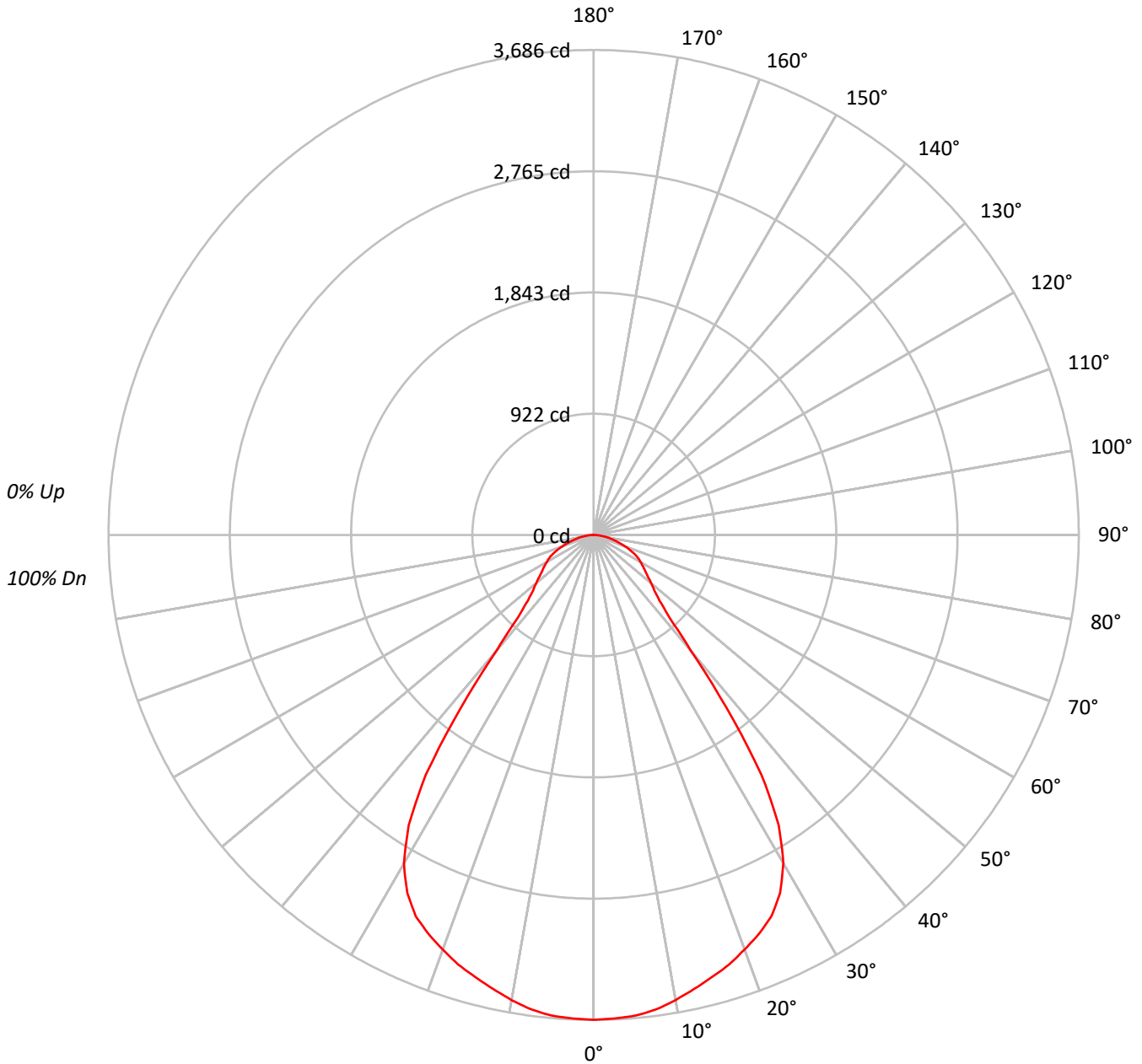
Lumens per Lamp: N/A
Luminaire Lumens: 5685.1 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593816
CATALOG NUMBER: HCC8W50D010MB-HM82555950-81WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P593816

CATALOG NUMBER: HCC8W50D010MB-HM82555950-81WDW

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113660
5°	113521
10°	112398
15°	111051
20°	110023
25°	108785
30°	102647
35°	83585
40°	46183
45°	30823
50°	27340
55°	25666
60°	25335
65°	25115
70°	22693
75°	20278
80°	17740
85°	15709



TEST NUMBER: P593816
 CATALOG NUMBER: HCC8W50D010MB-HM82555950-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	6.1
10°-20°	982.2	17.3
20°-30°	1459.4	25.7
30°-40°	1314.3	23.1
40°-50°	582.7	10.2
50°-60°	431.5	7.6
60°-70°	335.6	5.9
70°-80°	181.9	3.2
80°-90°	49.8	0.9
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°	2789.2	49.1
0°-40°	4103.6	72.2
0°-60°	5117.8	90.0
0°-90°	5685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5685.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3686	
5°	3667	348
15°	3479	982
25°	3197	1459
35°	2220	1314
45°	707	583
55°	477	432
65°	344	336
75°	170	182
85°	44	50
90°	0	



TEST NUMBER: P593816
CATALOG NUMBER: HCC8W50D010MB-HM82555950-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3685.9
2.5°	3678.5
5°	3667.4
7.5°	3637.7
10°	3589.6
12.5°	3534.1
15°	3478.6
17.5°	3423.1
20°	3352.8
22.5°	3282.4
25°	3197.3
27.5°	3067.8
30°	2882.8
32.5°	2616.3
35°	2220.4
37.5°	1657.9
40°	1147.3
42.5°	847.4
45°	706.8
47.5°	625.4
50°	569.9
52.5°	518.1
55°	477.4
57.5°	444.1
60°	410.8
62.5°	381.2
65°	344.2
67.5°	299.7
70°	251.7
72.5°	210.9
75°	170.2
77.5°	133.3
80°	99.9
82.5°	70.3
85°	44.4
87.5°	18.5
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)