

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: P584900

Luminaire Tested: **HCC8W50D010MB-HM82555940-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584900  
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-HM82555940-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

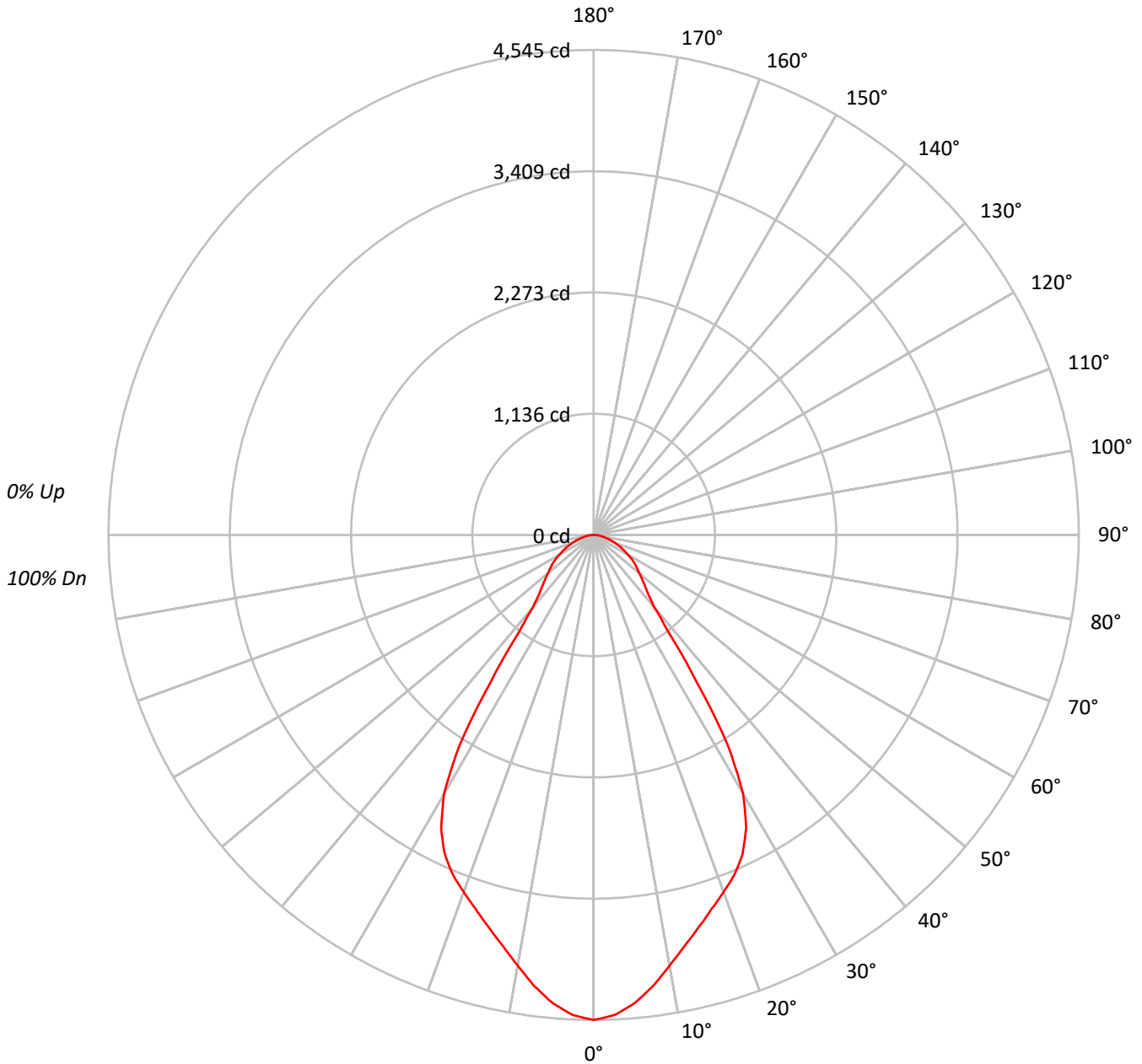
Lumens per Lamp: N/A  
Luminaire Lumens: 5481.6 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P584900  
CATALOG NUMBER: HCC8W50D010MB-HM82555940-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584900

CATALOG NUMBER: HCC8W50D010MB-HM82555940-81MDW

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	140163
5°	136347
10°	128301
15°	121474
20°	116849
25°	112337
30°	99770
35°	63540
40°	35464
45°	29702
50°	26812
55°	25273
60°	23053
65°	20795
70°	18347
75°	16323
80°	14473
85°	13126



TEST NUMBER: P584900  
 CATALOG NUMBER: HCC8W50D010MB-HM82555940-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.6	7.5
10°-20°	1073.1	19.6
20°-30°	1497.1	27.3
30°-40°	1077.2	19.7
40°-50°	533.9	9.7
50°-60°	417.7	7.6
60°-70°	282.7	5.2
70°-80°	146.9	2.7
80°-90°	42.3	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°	2980.9	54.4
0°-40°	4058.1	74.0
0°-60°	5009.7	91.4
0°-90°	5481.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5481.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4545	
5°	4405	411
15°	3805	1073
25°	3302	1497
35°	1688	1077
45°	681	534
55°	470	418
65°	285	283
75°	137	147
85°	37	42
90°	0	



TEST NUMBER: P584900  
CATALOG NUMBER: HCC8W50D010MB-HM82555940-81MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4545.4
2.5°	4504.6
5°	4404.8
7.5°	4264.0
10°	4097.5
12.5°	3942.1
15°	3805.1
17.5°	3675.6
20°	3560.8
22.5°	3446.1
25°	3301.7
27.5°	3094.5
30°	2802.0
32.5°	2343.0
35°	1687.9
37.5°	1151.1
40°	881.0
42.5°	758.8
45°	681.1
47.5°	614.4
50°	558.9
52.5°	510.9
55°	470.1
57.5°	422.0
60°	373.8
62.5°	325.7
65°	285.0
67.5°	244.3
70°	203.5
72.5°	170.3
75°	137.0
77.5°	107.3
80°	81.5
82.5°	59.3
85°	37.1
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)