

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: P584822

Luminaire Tested: **HCC8S50D010MB-HM82555835-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S50D010MB-HM82555835-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

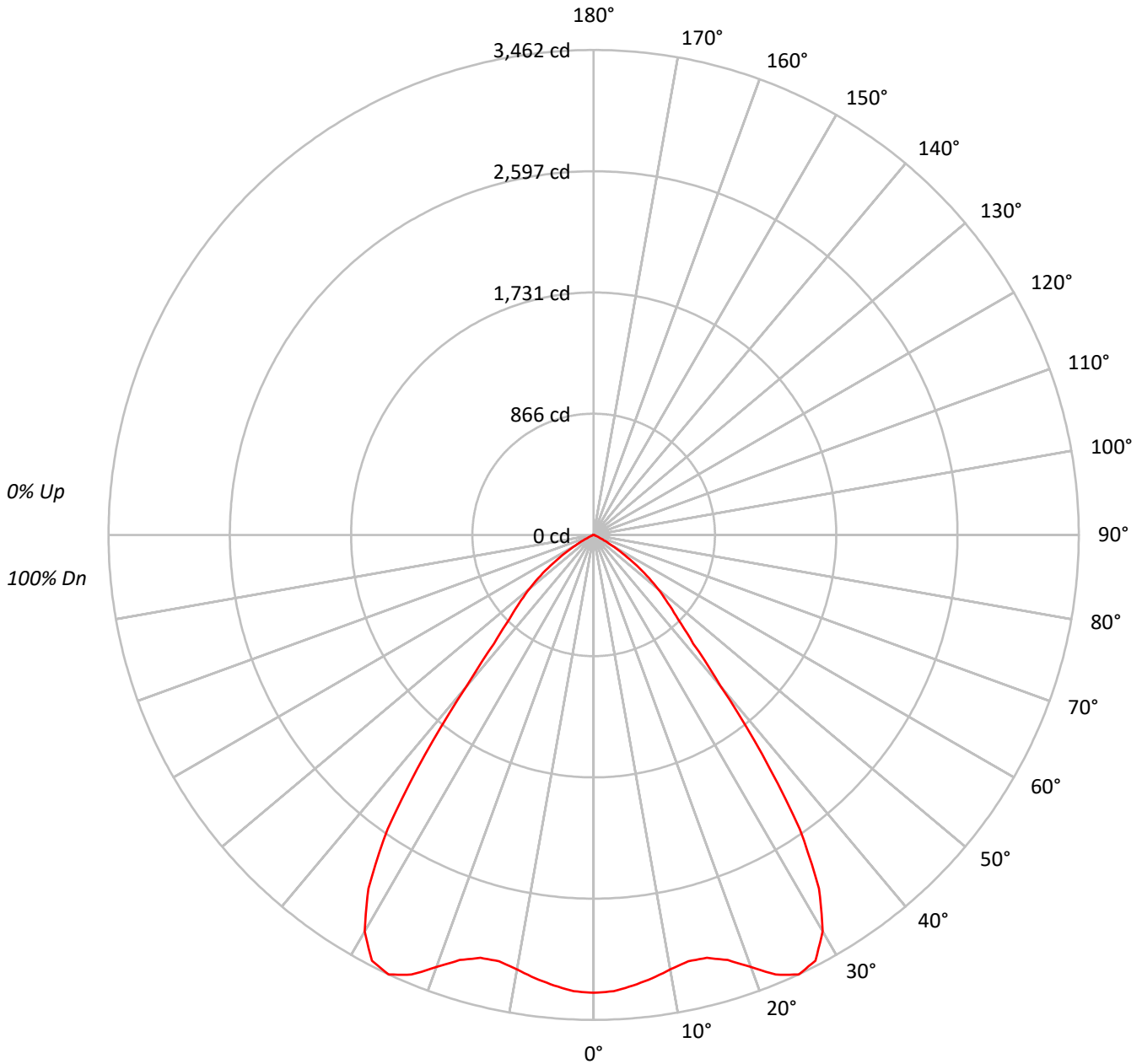
Lumens per Lamp: N/A  
Luminaire Lumens: 5378.7 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584822  
CATALOG NUMBER: HCC8S50D010MB-HM82555835-81WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P584822

CATALOG NUMBER: HCC8S50D010MB-HM82555835-81WDBB

**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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			68
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			47
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	45	42	50	45	41	40			40

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

	0°
0°	100779
5°	99942
10°	98620
15°	99747
20°	107720
25°	117795
30°	116370
35°	96527
40°	56818
45°	37116
50°	28774
55°	19112
60°	9300
65°	2882
70°	974
75°	846
80°	639
85°	1274



TEST NUMBER: P584822  
 CATALOG NUMBER: HCC8S50D010MB-HM82555835-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.8	5.7
10°-20°	897.6	16.7
20°-30°	1569.5	29.2
30°-40°	1526.7	28.4
40°-50°	694.3	12.9
50°-60°	321.9	6.0
60°-70°	54.0	1.0
70°-80°	6.6	0.1
80°-90°	2.4	0.0
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°	2772.9	51.6
0°-40°	4299.6	79.9
0°-60°	5315.7	98.8
0°-90°	5378.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5378.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3268	
5°	3229	306
15°	3124	898
25°	3462	1569
35°	2564	1527
45°	851	694
55°	356	322
65°	40	54
75°	7	7
85°	4	2
90°	0	



TEST NUMBER: P584822  
CATALOG NUMBER: HCC8S50D010MB-HM82555835-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3268.2
2.5°	3261.0
5°	3228.7
7.5°	3192.8
10°	3149.6
12.5°	3117.4
15°	3124.5
17.5°	3182.0
20°	3282.6
22.5°	3397.5
25°	3462.1
27.5°	3426.2
30°	3268.2
32.5°	2991.6
35°	2564.2
37.5°	1975.3
40°	1411.5
42.5°	1052.3
45°	851.1
47.5°	718.2
50°	599.8
52.5°	477.7
55°	355.5
57.5°	244.2
60°	150.8
62.5°	82.6
65°	39.5
67.5°	18.0
70°	10.8
72.5°	7.1
75°	7.1
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	0.0
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)