

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: P584841

Luminaire Tested: **HCC8S50D010MB-HM82555840-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S50D010MB-HM82555840-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

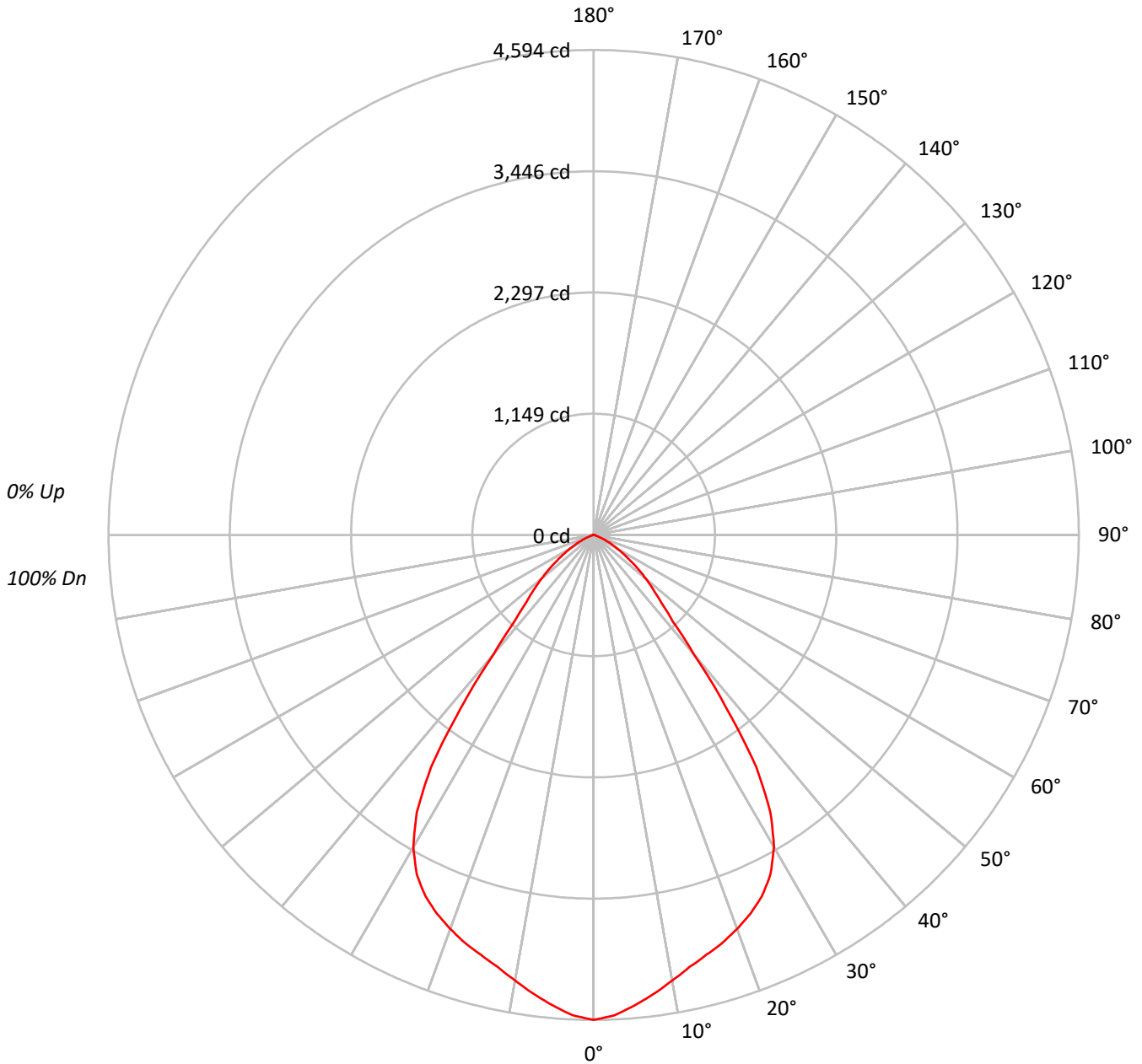
Lumens per Lamp: N/A  
Luminaire Lumens: 6187.1 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<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: P584841  
CATALOG NUMBER: HCC8S50D010MB-HM82555840-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P584841

CATALOG NUMBER: HCC8S50D010MB-HM82555840-81WDH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92																																				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																																				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																																				
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68																																				
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																																				
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57																																				
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52																																				
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																																				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44																																				
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41																																				

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

	0°
0°	141650
5°	138455
10°	134213
15°	131495
20°	130316
25°	128366
30°	121597
35°	101029
40°	59495
45°	39353
50°	30971
55°	22795
60°	15831
65°	9646
70°	4201
75°	1847
80°	1385
85°	0



TEST NUMBER: P584841  
 CATALOG NUMBER: HCC8S50D010MB-HM82555840-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.2	6.8
10°-20°	1164.5	18.8
20°-30°	1725.3	27.9
30°-40°	1594.2	25.8
40°-50°	735.1	11.9
50°-60°	386.6	6.2
60°-70°	136.6	2.2
70°-80°	21.4	0.3
80°-90°	2.1	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°	3311.0	53.5
0°-40°	4905.3	79.3
0°-60°	6027.0	97.4
0°-90°	6187.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6187.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4594	
5°	4473	421
15°	4119	1165
25°	3773	1725
35°	2684	1594
45°	902	735
55°	424	387
65°	132	137
75°	16	21
85°	0	2
90°	0	



TEST NUMBER: P584841  
CATALOG NUMBER: HCC8S50D010MB-HM82555840-81WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4593.6
2.5°	4554.7
5°	4472.9
7.5°	4383.5
10°	4286.3
12.5°	4193.0
15°	4119.0
17.5°	4052.9
20°	3971.2
22.5°	3881.8
25°	3772.8
27.5°	3625.1
30°	3415.0
32.5°	3115.5
35°	2683.8
37.5°	2061.4
40°	1478.0
42.5°	1108.6
45°	902.4
47.5°	766.3
50°	645.6
52.5°	529.0
55°	424.0
57.5°	334.5
60°	256.7
62.5°	194.5
65°	132.2
67.5°	77.7
70°	46.6
72.5°	27.2
75°	15.5
77.5°	11.7
80°	7.8
82.5°	3.9
85°	0.0
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)