

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: P593352

Luminaire Tested: **HCC6W50D010BZ-HM64560850-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010BZ-HM64560850-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

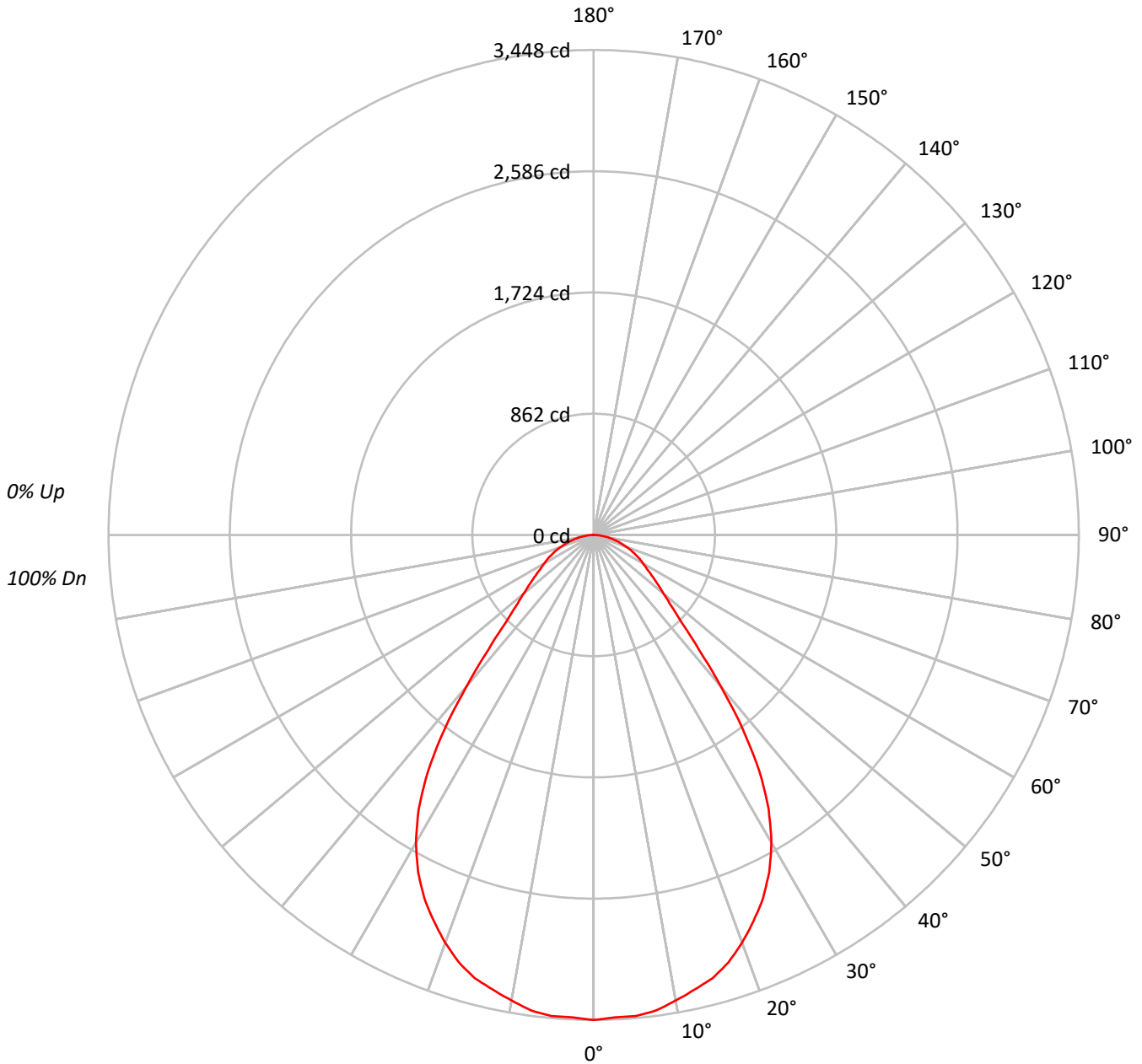
Lumens per Lamp: N/A  
Luminaire Lumens: 5539.8 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P593352  
CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593352  
 CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61WDW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

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

	0°
0°	189047
5°	188933
10°	187104
15°	185166
20°	179933
25°	172329
30°	159936
35°	137607
40°	100445
45°	68829
50°	55324
55°	48218
60°	44503
65°	42326
70°	39526
75°	36982
80°	33527
85°	28619



TEST NUMBER: P593352  
 CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.5	5.9
10°-20°	916.3	16.5
20°-30°	1303.2	23.5
30°-40°	1254.6	22.6
40°-50°	721.9	13.0
50°-60°	457.4	8.3
60°-70°	323.8	5.8
70°-80°	184.6	3.3
80°-90°	52.6	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°	2544.9	45.9
0°-40°	3799.5	68.6
0°-60°	4978.7	89.9
0°-90°	5539.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5539.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3448	
5°	3433	325
15°	3263	916
25°	2849	1303
35°	2056	1255
45°	888	722
55°	504	457
65°	326	324
75°	175	185
85°	46	53
90°	0	



TEST NUMBER: P593352  
CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3448.5
2.5°	3433.3
5°	3433.3
7.5°	3410.5
10°	3361.2
12.5°	3311.9
15°	3262.6
17.5°	3186.7
20°	3084.3
22.5°	2970.5
25°	2849.0
27.5°	2701.1
30°	2526.6
32.5°	2314.2
35°	2056.2
37.5°	1741.3
40°	1403.6
42.5°	1107.8
45°	887.8
47.5°	747.3
50°	648.7
52.5°	569.0
55°	504.5
57.5°	447.6
60°	405.9
62.5°	368.0
65°	326.3
67.5°	288.3
70°	246.6
72.5°	208.7
75°	174.6
77.5°	140.4
80°	106.2
82.5°	75.8
85°	45.5
87.5°	19.0
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)