

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: P582760

Luminaire Tested: **HCC6S50D010BZ-HM64560840-61NDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S50D010BZ-HM64560840-61NDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

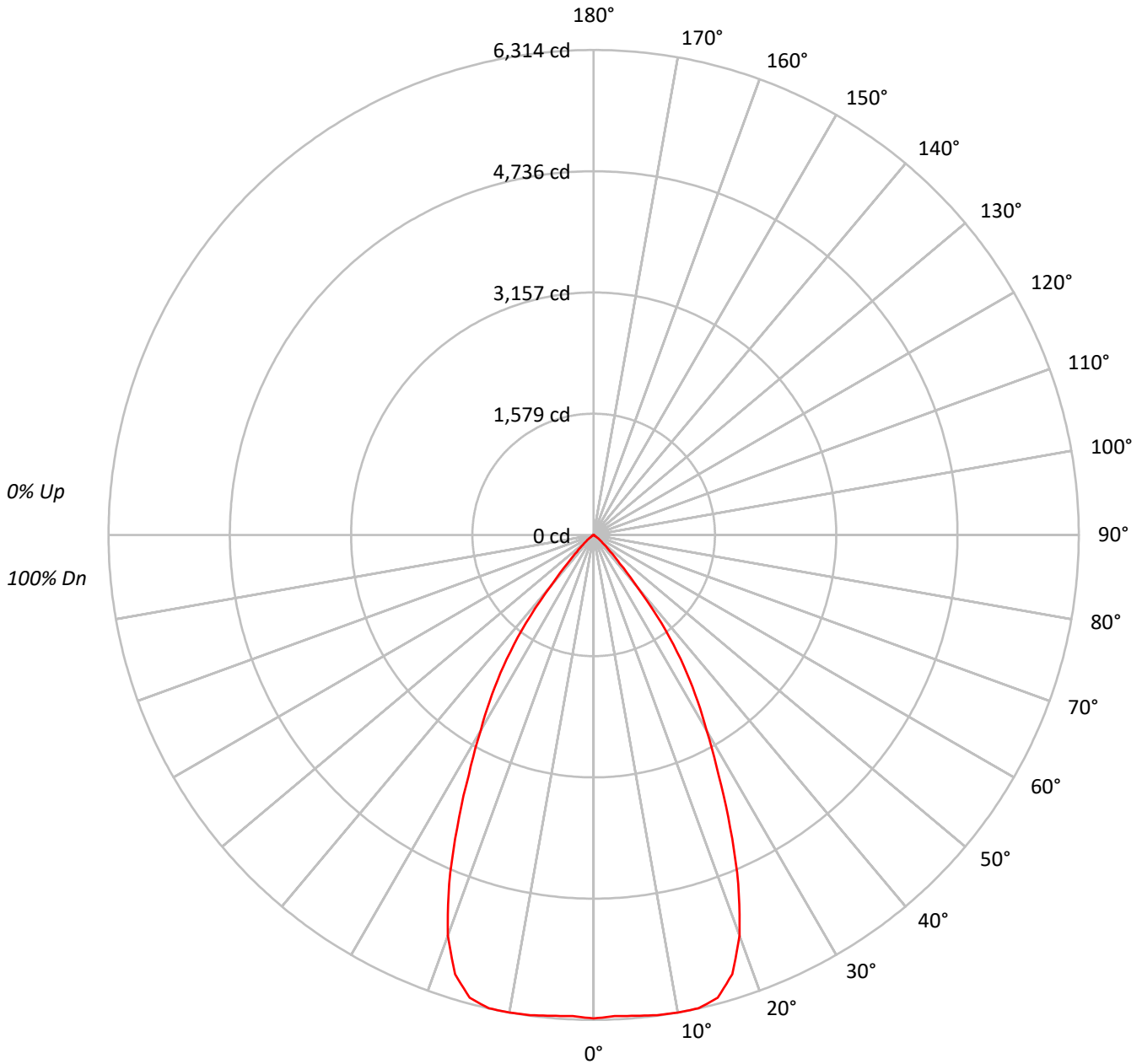
Lumens per Lamp: N/A  
Luminaire Lumens: 5778.8 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582760  
CATALOG NUMBER: HCC6S50D010BZ-HM64560840-61NDC

### Luminous Intensity Polar Plot





TEST NUMBER: P582760

CATALOG NUMBER: HCC6S50D010BZ-HM64560840-61NDC

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

RF	20				20				20				20				20		
RC	80				70				50				30				10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82	82
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76	76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71	71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67	67
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59	59
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52	52

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

	0°
0°	345115
5°	345811
10°	351502
15°	354060
20°	323656
25°	254325
30°	186162
35°	132053
40°	62460
45°	23832
50°	10678
55°	2906
60°	1239
65°	986
70°	609
75°	805
80°	0
85°	0



TEST NUMBER: P582760  
 CATALOG NUMBER: HCC6S50D010BZ-HM64560840-61NDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.2	10.4
10°-20°	1724.3	29.8
20°-30°	1917.9	33.2
30°-40°	1198.1	20.7
40°-50°	284.7	4.9
50°-60°	40.7	0.7
60°-70°	8.4	0.1
70°-80°	3.5	0.1
80°-90°	0.0	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°	4243.4	73.4
0°-40°	5441.5	94.2
0°-60°	5766.9	99.8
0°-90°	5778.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6295	
5°	6284	601
15°	6238	1724
25°	4205	1918
35°	1973	1198
45°	307	285
55°	30	41
65°	8	8
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P582760  
CATALOG NUMBER: HCC6S50D010BZ-HM64560840-61NDC

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6295.4
2.5°	6268.9
5°	6284.1
7.5°	6306.8
10°	6314.5
12.5°	6310.6
15°	6238.5
17.5°	5995.7
20°	5547.9
22.5°	4917.9
25°	4204.6
27.5°	3521.5
30°	2940.9
32.5°	2459.0
35°	1973.2
37.5°	1449.6
40°	872.8
42.5°	504.6
45°	307.4
47.5°	197.3
50°	125.2
52.5°	72.0
55°	30.4
57.5°	15.2
60°	11.3
62.5°	11.3
65°	7.6
67.5°	7.6
70°	3.8
72.5°	3.8
75°	3.8
77.5°	3.8
80°	0.0
82.5°	0.0
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)