

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: P582830

Luminaire Tested: **HCC6W50D010BZ-HM64560940-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010BZ-HM64560940-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

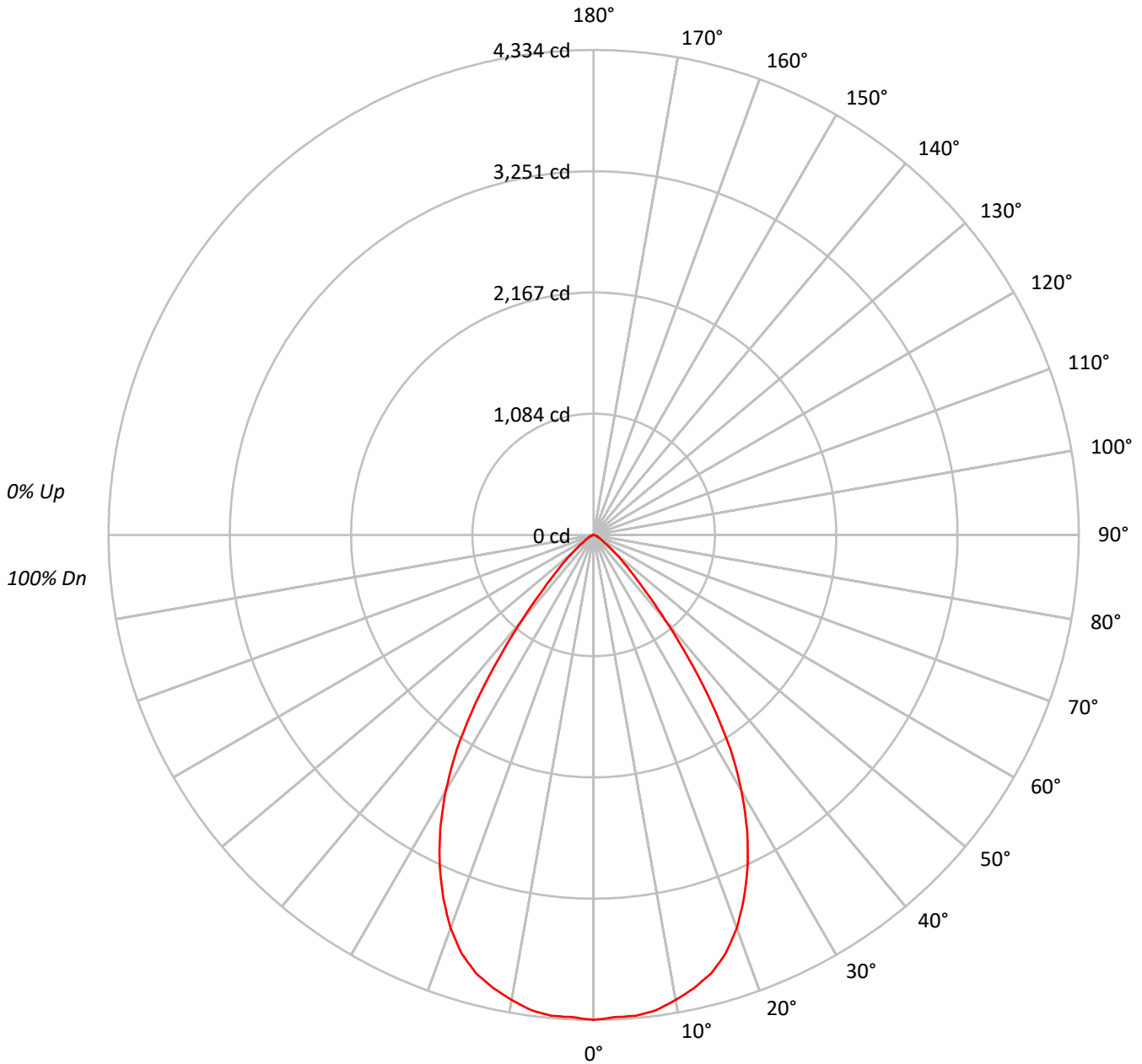
Lumens per Lamp: N/A  
Luminaire Lumens: 4743.9 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582830  
CATALOG NUMBER: HCC6W50D010BZ-HM64560940-61MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582830

CATALOG NUMBER: HCC6W50D010BZ-HM64560940-61MDH

**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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

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

	0°
0°	237591
5°	237398
10°	234921
15°	230194
20°	218063
25°	196917
30°	167279
35°	123500
40°	71427
45°	37919
50°	21424
55°	11211
60°	7346
65°	5215
70°	3767
75°	2817
80°	2115
85°	2076



TEST NUMBER: P582830  
 CATALOG NUMBER: HCC6W50D010BZ-HM64560940-61MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.8	8.6
10°-20°	1134.4	23.9
20°-30°	1480.7	31.2
30°-40°	1131.5	23.9
40°-50°	409.7	8.6
50°-60°	119.0	2.5
60°-70°	42.6	0.9
70°-80°	14.5	0.3
80°-90°	2.7	0.1
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°	3023.9	63.7
0°-40°	4155.4	87.6
0°-60°	4684.1	98.7
0°-90°	4743.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4743.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4334	
5°	4314	409
15°	4056	1134
25°	3256	1481
35°	1845	1131
45°	489	410
55°	117	119
65°	40	43
75°	13	15
85°	3	3
90°	0	



TEST NUMBER: P582830  
CATALOG NUMBER: HCC6W50D010BZ-HM64560940-61MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4334.0
2.5°	4314.0
5°	4314.0
7.5°	4283.7
10°	4220.2
12.5°	4146.5
15°	4056.0
17.5°	3922.1
20°	3737.9
22.5°	3510.1
25°	3255.5
27.5°	2967.5
30°	2642.6
32.5°	2277.6
35°	1845.4
37.5°	1393.3
40°	998.1
42.5°	689.9
45°	489.1
47.5°	351.7
50°	251.2
52.5°	177.5
55°	117.3
57.5°	83.7
60°	67.0
62.5°	53.6
65°	40.2
67.5°	33.5
70°	23.5
72.5°	16.8
75°	13.3
77.5°	10.0
80°	6.7
82.5°	3.3
85°	3.3
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)