

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: P582820

Luminaire Tested: **HCC6W50D010BZ-HM64560935-61WDBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010BZ-HM64560935-61WDBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

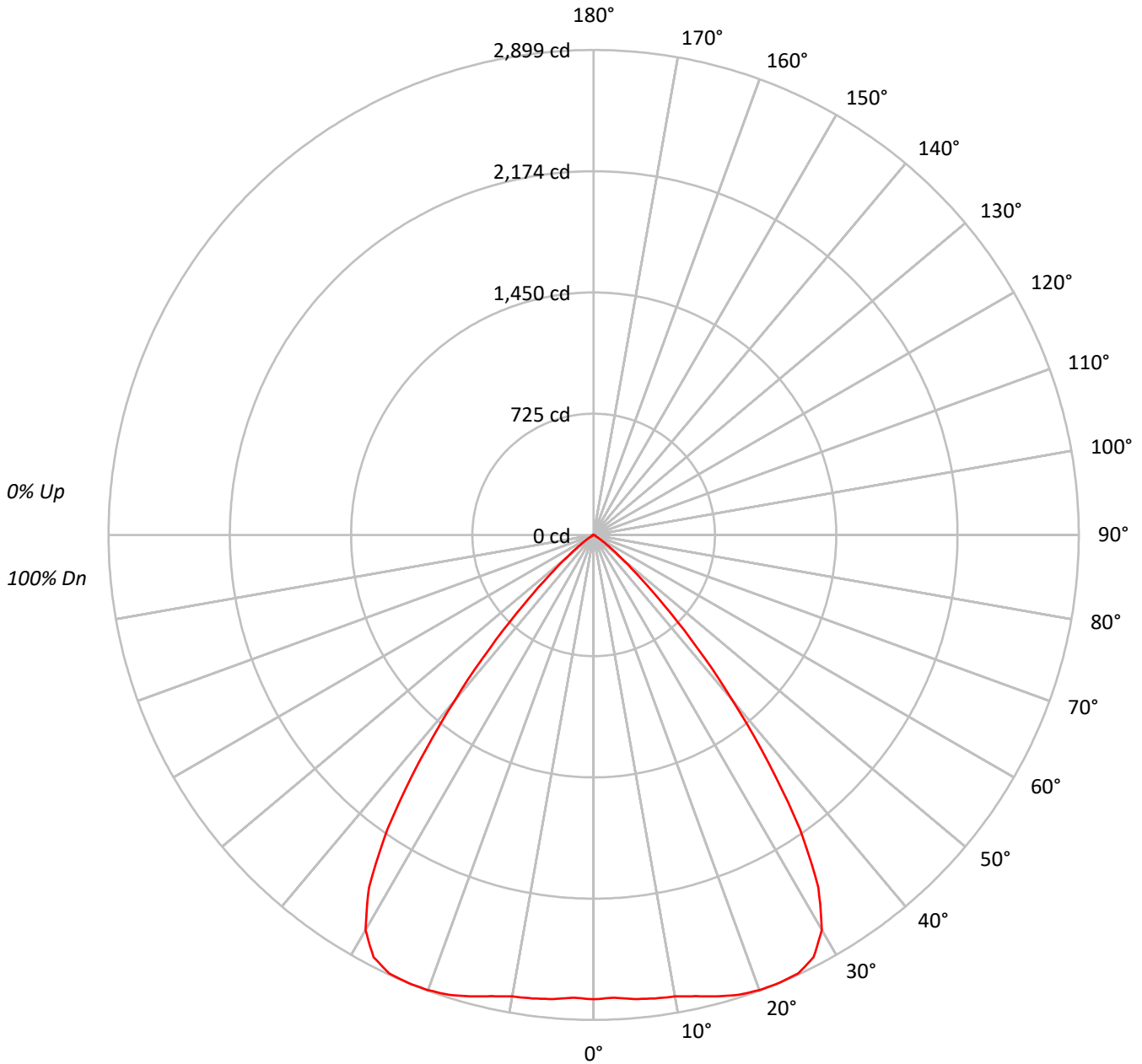
Lumens per Lamp: N/A  
Luminaire Lumens: 4283.9 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582820  
CATALOG NUMBER: HCC6W50D010BZ-HM64560935-61WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P582820

CATALOG NUMBER: HCC6W50D010BZ-HM64560935-61WDBB

**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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85	85	85	85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65	65	65	65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59	59	59	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43	43	43	43

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

	0°
0°	152148
5°	153257
10°	155931
15°	162118
20°	168907
25°	174942
30°	172596
35°	143804
40°	92216
45°	46051
50°	18268
55°	6212
60°	1776
65°	1258
70°	1042
75°	1377
80°	1010
85°	0



TEST NUMBER: P582820  
 CATALOG NUMBER: HCC6W50D010BZ-HM64560935-61WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.3	6.2
10°-20°	810.2	18.9
20°-30°	1322.8	30.9
30°-40°	1296.8	30.3
40°-50°	497.2	11.6
50°-60°	72.9	1.7
60°-70°	10.8	0.3
70°-80°	5.5	0.1
80°-90°	1.3	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°	2399.3	56.0
0°-40°	3696.1	86.3
0°-60°	4266.2	99.6
0°-90°	4283.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2775	
5°	2785	266
15°	2856	810
25°	2892	1323
35°	2149	1297
45°	594	497
55°	65	73
65°	10	11
75°	6	6
85°	0	1
90°	0	



TEST NUMBER: P582820  
CATALOG NUMBER: HCC6W50D010BZ-HM64560935-61WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2775.4
2.5°	2768.9
5°	2785.0
7.5°	2794.7
10°	2801.2
12.5°	2824.0
15°	2856.5
17.5°	2882.5
20°	2895.3
22.5°	2898.6
25°	2892.2
27.5°	2846.7
30°	2726.6
32.5°	2499.4
35°	2148.8
37.5°	1717.1
40°	1288.6
42.5°	918.6
45°	594.0
47.5°	363.5
50°	214.2
52.5°	123.3
55°	65.0
57.5°	29.2
60°	16.2
62.5°	13.0
65°	9.7
67.5°	9.7
70°	6.5
72.5°	6.5
75°	6.5
77.5°	3.2
80°	3.2
82.5°	3.2
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)