

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: P582564

Luminaire Tested: **HCC6W45D010BZ-HM64560827-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010BZ-HM64560827-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

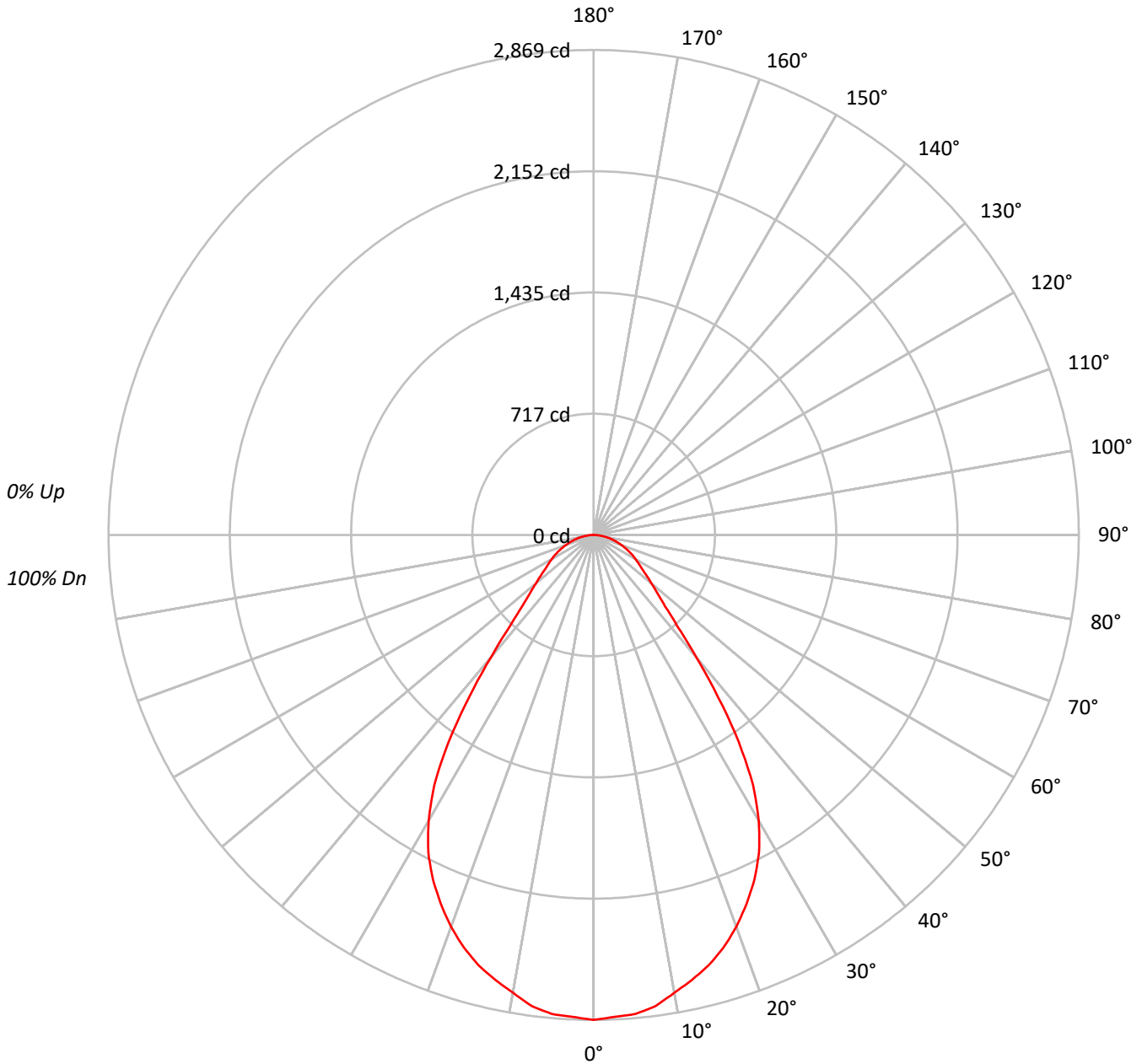
Lumens per Lamp: N/A  
Luminaire Lumens: 4152.6 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P582564  
CATALOG NUMBER: HCC6W45D010BZ-HM64560827-61NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582564  
 CATALOG NUMBER: HCC6W45D010BZ-HM64560827-61NDW

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

RF	20									20									20									20									
RC	80									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																			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79																			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57																			
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48																			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44																			
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41																			
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38																			

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

	0°
0°	157279
5°	156537
10°	153081
15°	149496
20°	143874
25°	136066
30°	123652
35°	100090
40°	67491
45°	46377
50°	38003
55°	33251
60°	31456
65°	29705
70°	27889
75°	26518
80°	24119
85°	21071



TEST NUMBER: P582564  
 CATALOG NUMBER: HCC6W45D010BZ-HM64560827-61NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.5	6.5
10°-20°	739.7	17.8
20°-30°	1027.7	24.7
30°-40°	915.0	22.0
40°-50°	485.7	11.7
50°-60°	317.7	7.6
60°-70°	227.7	5.5
70°-80°	132.1	3.2
80°-90°	38.6	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°	2035.9	49.0
0°-40°	2950.9	71.1
0°-60°	3754.3	90.4
0°-90°	4152.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2869	
5°	2845	269
15°	2634	740
25°	2250	1028
35°	1496	915
45°	598	486
55°	348	318
65°	229	228
75°	125	132
85°	34	39
90°	0	



TEST NUMBER: P582564  
CATALOG NUMBER: HCC6W45D010BZ-HM64560827-61NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2869.0
2.5°	2853.8
5°	2844.6
7.5°	2811.1
10°	2750.0
12.5°	2695.1
15°	2634.1
17.5°	2557.7
20°	2466.2
22.5°	2362.4
25°	2249.5
27.5°	2118.2
30°	1953.4
32.5°	1755.0
35°	1495.6
37.5°	1208.7
40°	943.1
42.5°	732.5
45°	598.2
47.5°	509.7
50°	445.6
52.5°	393.8
55°	347.9
57.5°	314.4
60°	286.9
62.5°	259.5
65°	229.0
67.5°	201.4
70°	174.0
72.5°	149.6
75°	125.2
77.5°	100.8
80°	76.4
82.5°	54.9
85°	33.5
87.5°	15.2
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)