

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: P582651

Luminaire Tested: **HCC6W45D010BZ-HM64560930-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010BZ-HM64560930-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

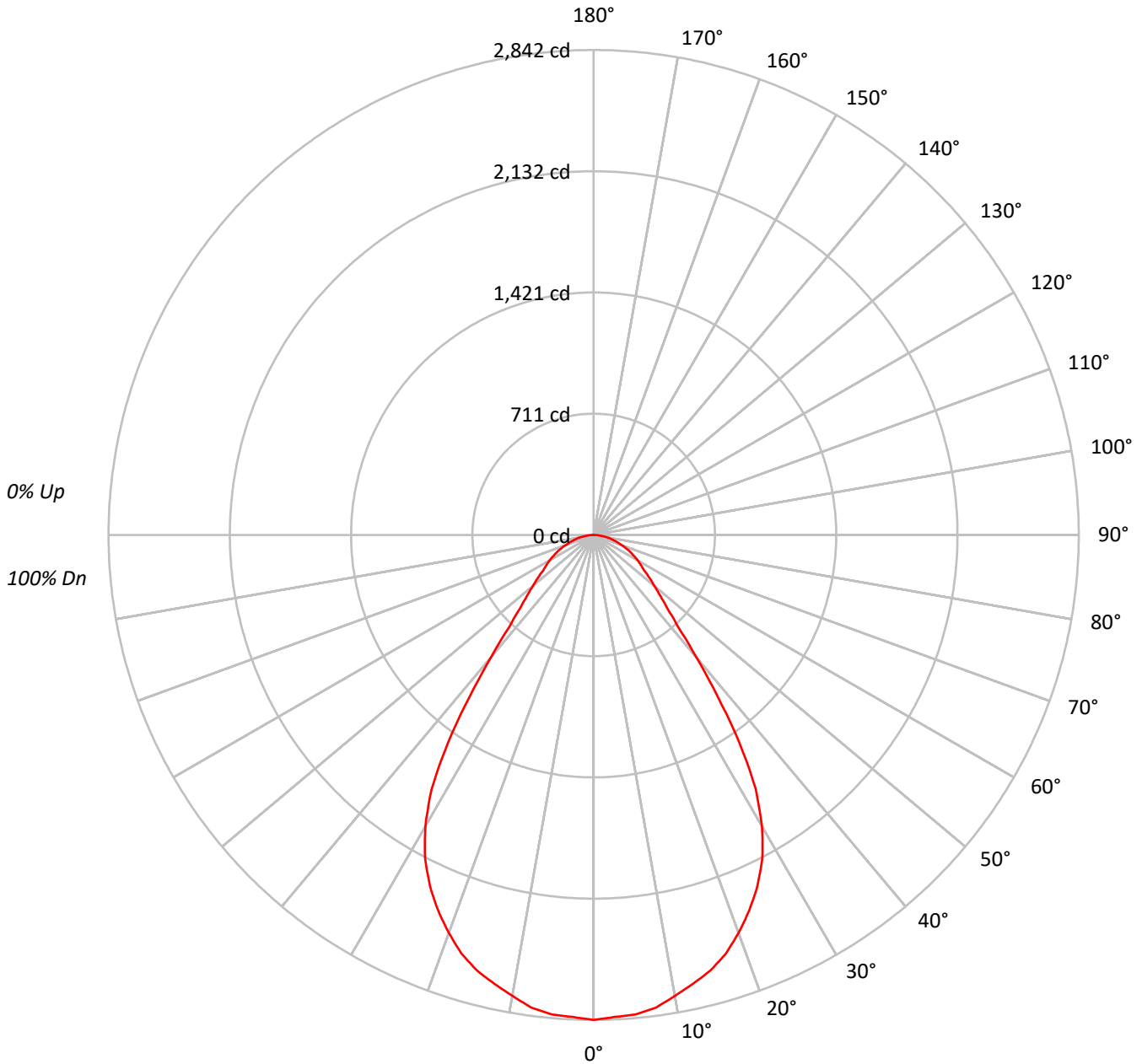
Lumens per Lamp: N/A  
Luminaire Lumens: 4185.8 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582651  
CATALOG NUMBER: HCC6W45D010BZ-HM64560930-61MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582651

CATALOG NUMBER: HCC6W45D010BZ-HM64560930-61MDW

**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	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	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

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

	0°
0°	155821
5°	155249
10°	152658
15°	149967
20°	144784
25°	137282
30°	124880
35°	99776
40°	66575
45°	47455
50°	39547
55°	34465
60°	32563
65°	30665
70°	28162
75°	26307
80°	23930
85°	20945



TEST NUMBER: P582651  
 CATALOG NUMBER: HCC6W45D010BZ-HM64560930-61MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	6.4
10°-20°	741.9	17.7
20°-30°	1036.8	24.8
30°-40°	913.3	21.8
40°-50°	493.4	11.8
50°-60°	329.9	7.9
60°-70°	233.9	5.6
70°-80°	131.5	3.1
80°-90°	38.3	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°	2045.5	48.9
0°-40°	2958.8	70.7
0°-60°	3782.2	90.4
0°-90°	4185.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4185.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2842	
5°	2821	267
15°	2642	742
25°	2270	1037
35°	1491	913
45°	612	493
55°	361	330
65°	236	234
75°	124	131
85°	33	38
90°	0	



TEST NUMBER: P582651  
CATALOG NUMBER: HCC6W45D010BZ-HM64560930-61MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2842.4
2.5°	2827.3
5°	2821.2
7.5°	2794.0
10°	2742.4
12.5°	2693.9
15°	2642.4
17.5°	2572.7
20°	2481.8
22.5°	2381.8
25°	2269.6
27.5°	2139.3
30°	1972.8
32.5°	1766.7
35°	1490.9
37.5°	1190.9
40°	930.3
42.5°	733.4
45°	612.1
47.5°	530.3
50°	463.7
52.5°	409.1
55°	360.6
57.5°	327.3
60°	297.0
62.5°	266.6
65°	236.4
67.5°	206.1
70°	175.7
72.5°	148.5
75°	124.2
77.5°	100.1
80°	75.8
82.5°	54.5
85°	33.3
87.5°	15.1
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)