

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: P582637

Luminaire Tested: **HCC6W45D010BZ-HM64560927-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010BZ-HM64560927-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

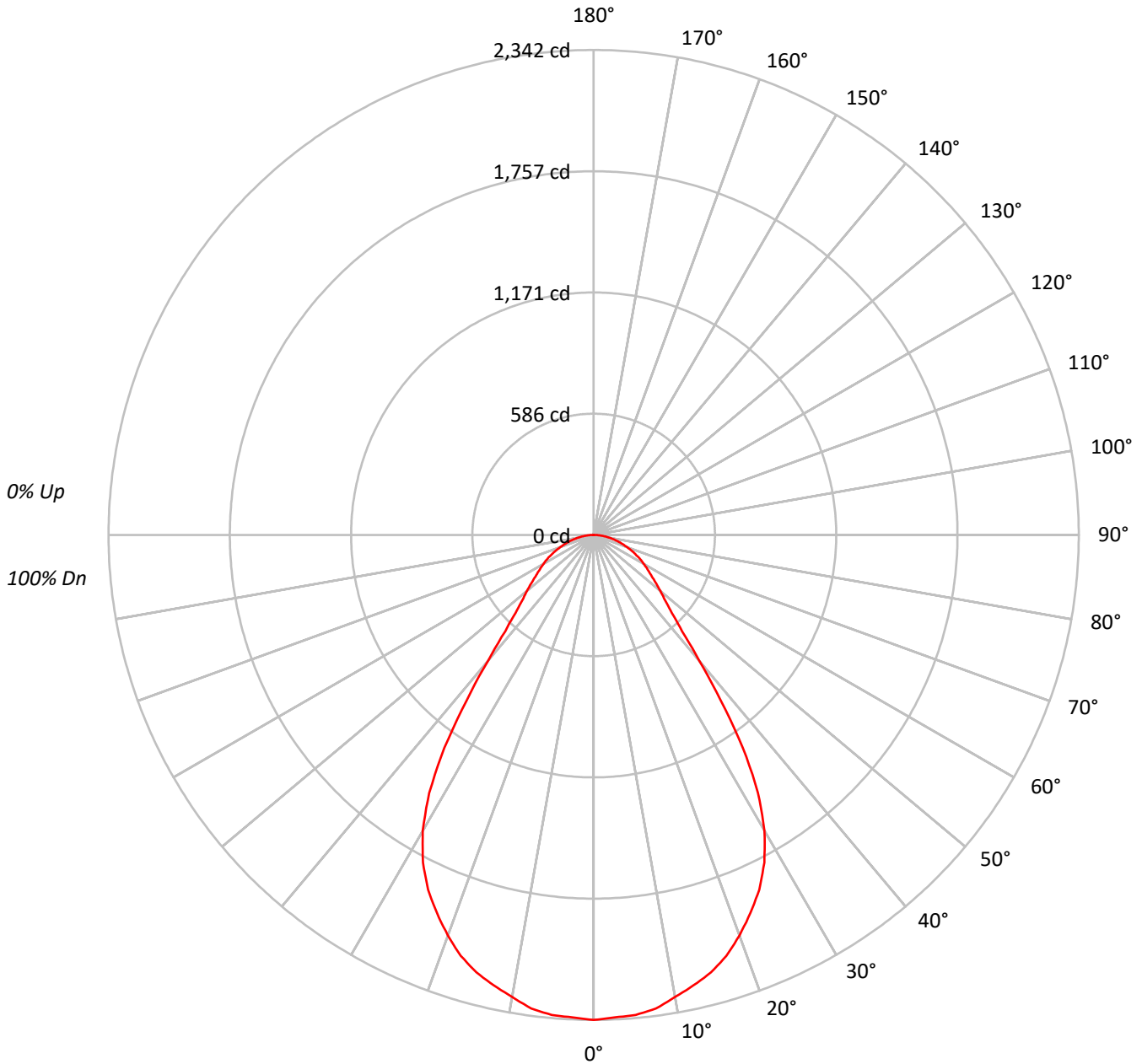
Lumens per Lamp: N/A  
Luminaire Lumens: 3592.5 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582637  
CATALOG NUMBER: HCC6W45D010BZ-HM64560927-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582637  
 CATALOG NUMBER: HCC6W45D010BZ-HM64560927-61PSMDW

**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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90		88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80		78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71		69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64		62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58		56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53		51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48		46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44		43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41		39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38		36

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

	0°
0°	128400
5°	128054
10°	126144
15°	124144
20°	120060
25°	114351
30°	104415
35°	84069
40°	56663
45°	41314
50°	35717
55°	32257
60°	30612
65°	28965
70°	27248
75°	25798
80°	24025
85°	22329



TEST NUMBER: P582637  
 CATALOG NUMBER: HCC6W45D010BZ-HM64560927-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.2	6.1
10°-20°	614.3	17.1
20°-30°	863.1	24.0
30°-40°	768.3	21.4
40°-50°	429.4	12.0
50°-60°	305.9	8.5
60°-70°	222.5	6.2
70°-80°	128.8	3.6
80°-90°	40.0	1.1
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°	1697.6	47.3
0°-40°	2465.9	68.6
0°-60°	3201.1	89.1
0°-90°	3592.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3592.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2342	
5°	2327	220
15°	2187	614
25°	1890	863
35°	1256	768
45°	533	429
55°	338	306
65°	223	223
75°	122	129
85°	36	40
90°	0	



TEST NUMBER: P582637  
CATALOG NUMBER: HCC6W45D010BZ-HM64560927-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2342.2
2.5°	2332.2
5°	2327.0
7.5°	2306.7
10°	2266.1
12.5°	2228.1
15°	2187.4
17.5°	2131.7
20°	2058.0
22.5°	1976.9
25°	1890.5
27.5°	1784.0
30°	1649.5
32.5°	1476.9
35°	1256.2
37.5°	1007.5
40°	791.8
42.5°	631.9
45°	532.9
47.5°	467.0
50°	418.8
52.5°	375.6
55°	337.5
57.5°	307.1
60°	279.2
62.5°	253.7
65°	223.3
67.5°	197.9
70°	170.0
72.5°	144.6
75°	121.8
77.5°	99.0
80°	76.1
82.5°	55.8
85°	35.5
87.5°	17.7
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)