

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: P593292

Luminaire Tested: **HCC6W40D010BZ-HM63040950-61MDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010BZ-HM63040950-61MDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

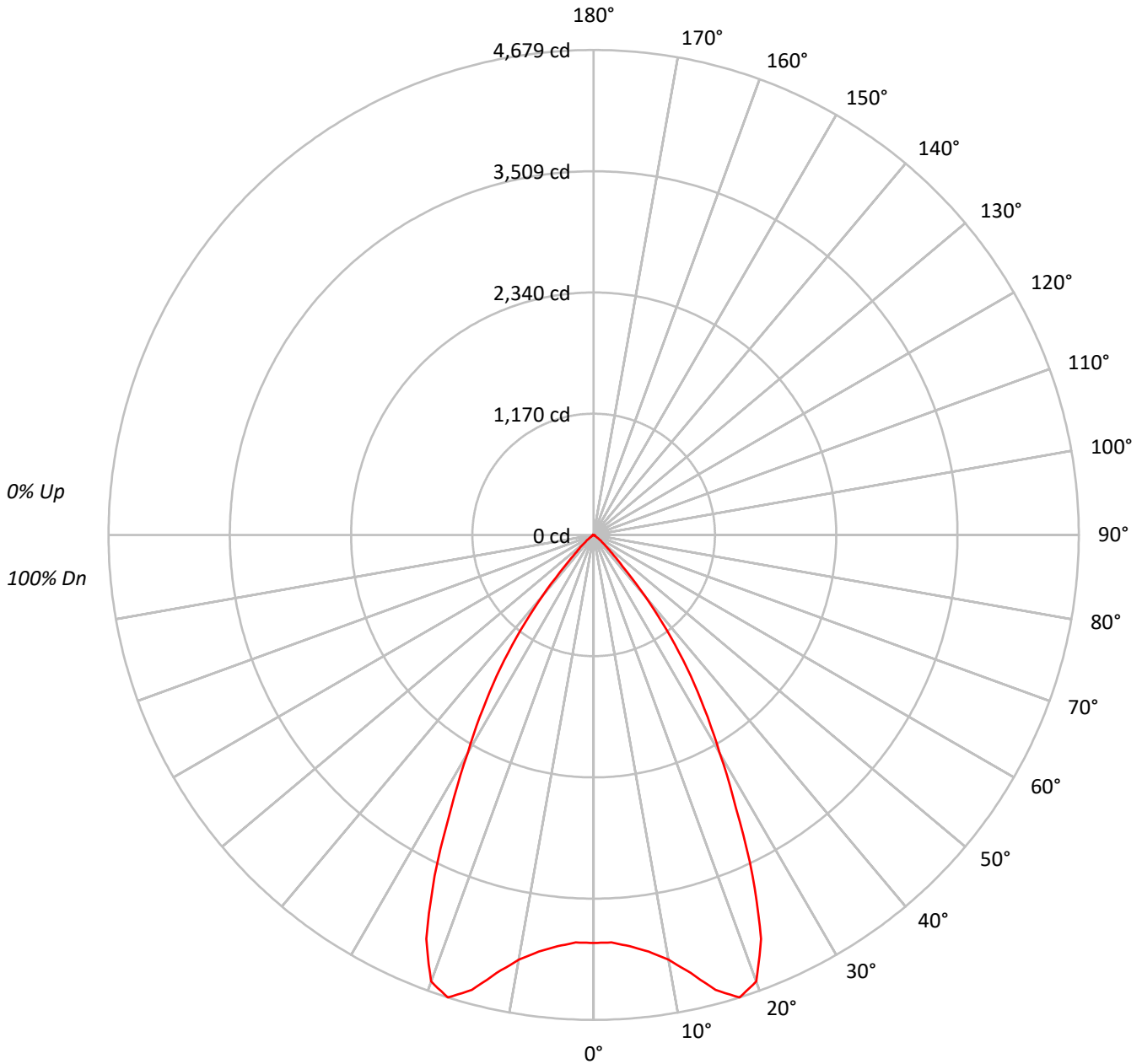
Lumens per Lamp: N/A  
Luminaire Lumens: 4543.6 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P593292  
CATALOG NUMBER: HCC6W40D010BZ-HM63040950-61MDC

### Luminous Intensity Polar Plot





TEST NUMBER: P593292  
 CATALOG NUMBER: HCC6W40D010BZ-HM63040950-61MDC

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75		
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61		
8	79	70	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57		
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54		
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50		

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

	0°
0°	215761
5°	219122
10°	231598
15°	257873
20°	267429
25°	219418
30°	153752
35°	104895
40°	54645
45°	19211
50°	8605
55°	2753
60°	1579
65°	1129
70°	930
75°	614
80°	0
85°	0



TEST NUMBER: P593292  
 CATALOG NUMBER: HCC6W40D010BZ-HM63040950-61MDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.7	8.5
10°-20°	1277.9	28.1
20°-30°	1627.1	35.8
30°-40°	969.7	21.3
40°-50°	235.2	5.2
50°-60°	36.1	0.8
60°-70°	8.9	0.2
70°-80°	3.1	0.1
80°-90°	0.0	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°	3290.7	72.4
0°-40°	4260.4	93.8
0°-60°	4531.7	99.7
0°-90°	4543.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4543.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3936	
5°	3982	386
15°	4544	1278
25°	3628	1627
35°	1567	970
45°	248	235
55°	29	36
65°	9	9
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P593292  
CATALOG NUMBER: HCC6W40D010BZ-HM63040950-61MDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3935.8
2.5°	3935.8
5°	3981.9
7.5°	4053.9
10°	4160.5
12.5°	4327.6
15°	4543.7
17.5°	4679.2
20°	4584.1
22.5°	4218.2
25°	3627.5
27.5°	2976.3
30°	2428.9
32.5°	1985.2
35°	1567.4
37.5°	1155.4
40°	763.6
42.5°	412.1
45°	247.8
47.5°	155.6
50°	100.9
52.5°	60.5
55°	28.8
57.5°	17.3
60°	14.4
62.5°	11.5
65°	8.7
67.5°	5.8
70°	5.8
72.5°	2.9
75°	2.9
77.5°	2.9
80°	0.0
82.5°	0.0
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)