

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: P593289

Luminaire Tested: **HCC6W40D010MW-HM63040950-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W40D010MW-HM63040950-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

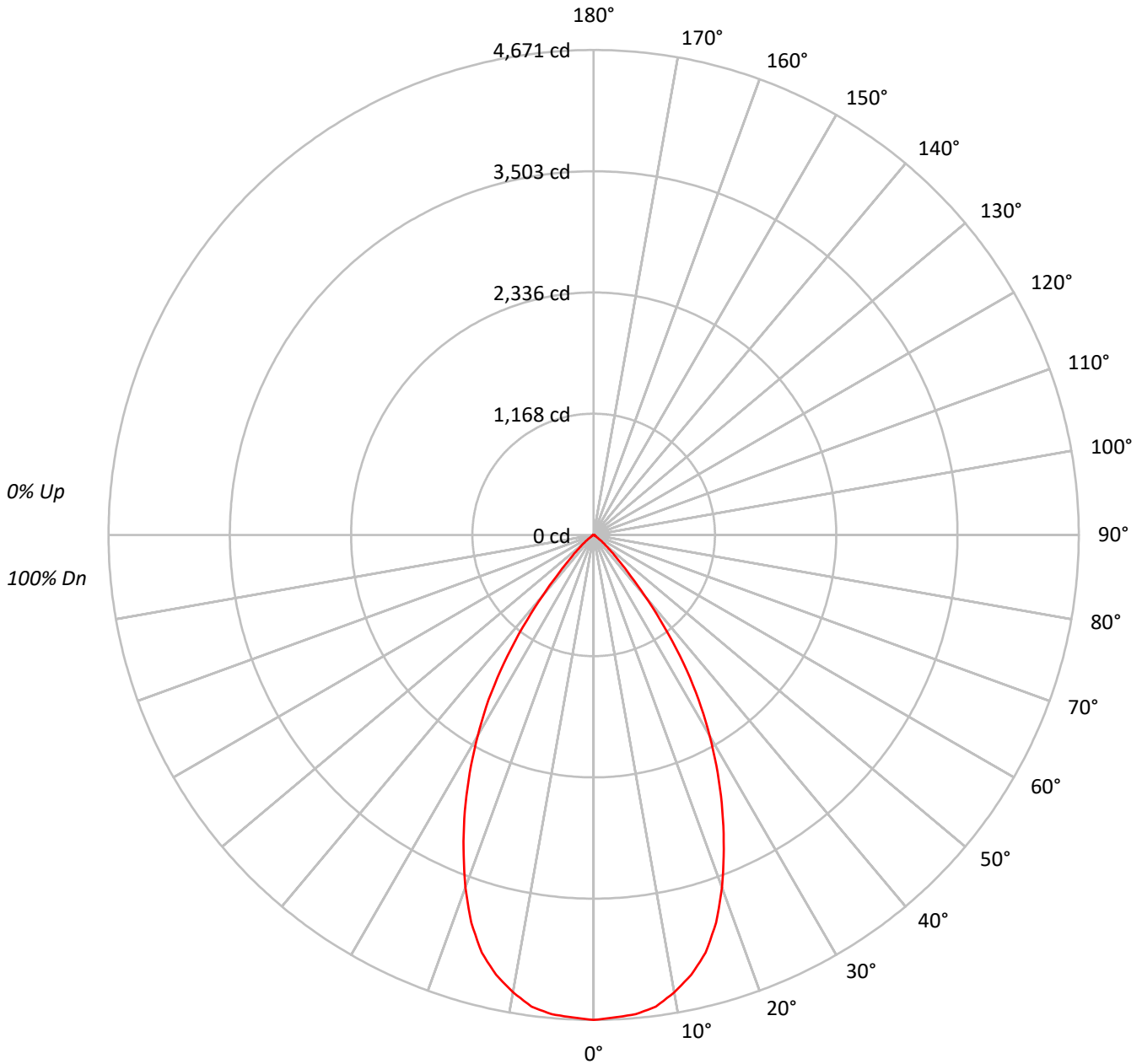
Lumens per Lamp: N/A  
Luminaire Lumens: 4183.5 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P593289  
CATALOG NUMBER: HCC6W40D010MW-HM63040950-61NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P593289  
 CATALOG NUMBER: HCC6W40D010MW-HM63040950-61NDH

**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	113	111	108	106	111	109	106	104	105	103	101		101	99	98		97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		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	88	83	79	86	82	78		84	81	78		82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78	74	71	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	64	59	78	69	63	59	68	63	59		67	62	59		66	62	59	57
9	75	66	60	56	74	65	59	56	64	59	55		63	59	55		62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52		60	55	52		59	55	52	51

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

	0°
0°	256087
5°	255002
10°	248971
15°	236335
20°	210654
25°	177452
30°	141370
35°	100866
40°	54237
45°	23235
50°	10567
55°	3861
60°	1897
65°	1492
70°	1394
75°	614
80°	916
85°	0



TEST NUMBER: P593289  
 CATALOG NUMBER: HCC6W40D010MW-HM63040950-61NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.4	10.5
10°-20°	1154.3	27.6
20°-30°	1336.9	32.0
30°-40°	924.4	22.1
40°-50°	266.9	6.4
50°-60°	46.0	1.1
60°-70°	11.8	0.3
70°-80°	4.6	0.1
80°-90°	1.2	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°	2928.6	70.0
0°-40°	3853.0	92.1
0°-60°	4166.0	99.6
0°-90°	4183.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4183.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4671	
5°	4634	437
15°	4164	1154
25°	2934	1337
35°	1507	924
45°	300	267
55°	40	46
65°	12	12
75°	3	5
85°	0	1
90°	0	



TEST NUMBER: P593289  
CATALOG NUMBER: HCC6W40D010MW-HM63040950-61NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4671.4
2.5°	4651.2
5°	4633.9
7.5°	4582.1
10°	4472.6
12.5°	4340.0
15°	4164.2
17.5°	3916.4
20°	3610.9
22.5°	3273.8
25°	2933.7
27.5°	2585.0
30°	2233.3
32.5°	1881.8
35°	1507.2
37.5°	1118.1
40°	757.9
42.5°	478.4
45°	299.7
47.5°	193.1
50°	123.9
52.5°	74.9
55°	40.4
57.5°	23.1
60°	17.3
62.5°	14.4
65°	11.5
67.5°	8.7
70°	8.7
72.5°	5.8
75°	2.9
77.5°	2.9
80°	2.9
82.5°	2.9
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)