

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: P582832

Luminaire Tested: **HCC6W50D010MW-HM64560940-61NDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010MW-HM64560940-61NDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

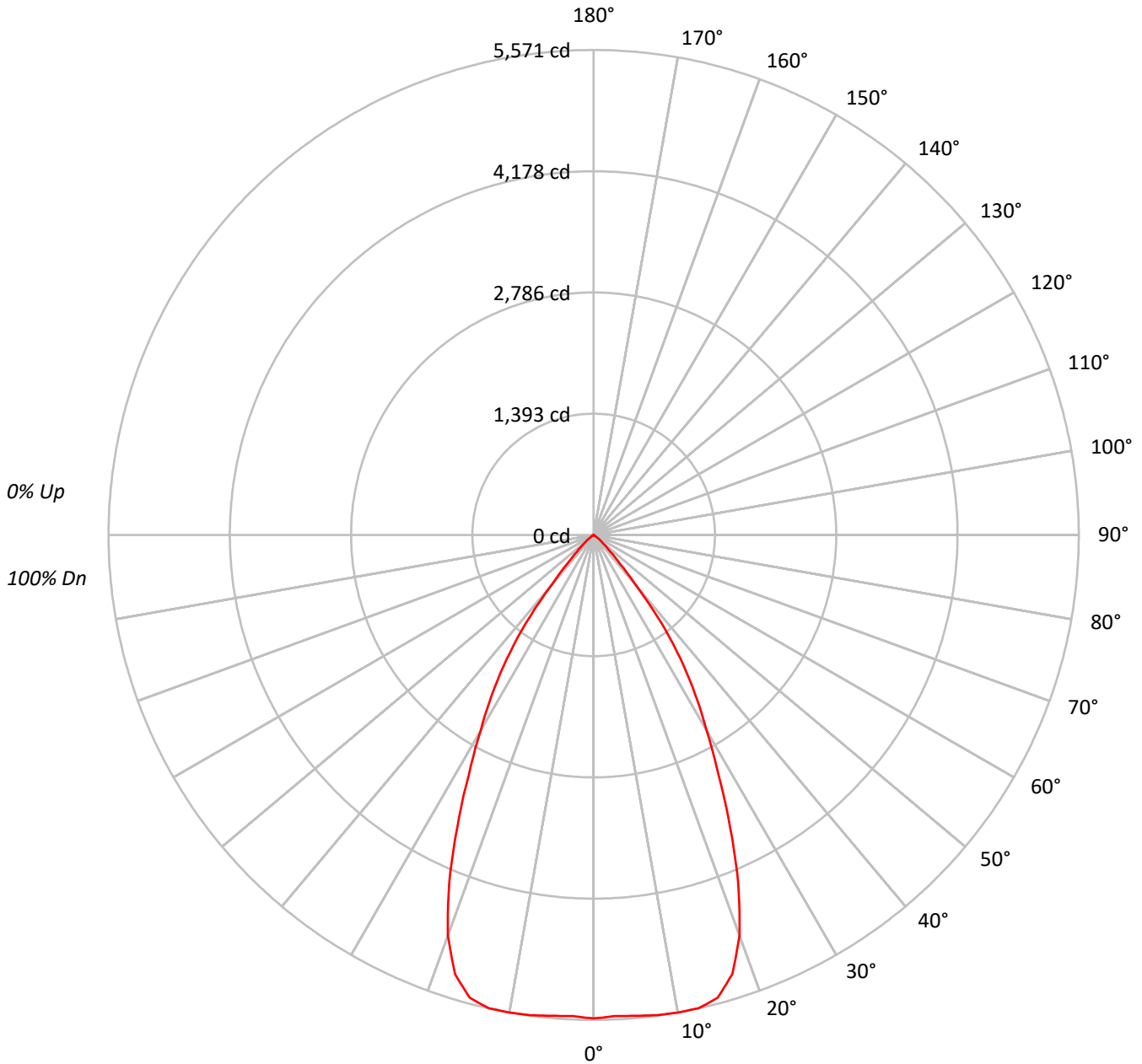
Lumens per Lamp: N/A  
Luminaire Lumens: 5098.7 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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: P582832  
CATALOG NUMBER: HCC6W50D010MW-HM64560940-61NDC

### Luminous Intensity Polar Plot





TEST NUMBER: P582832  
 CATALOG NUMBER: HCC6W50D010MW-HM64560940-61NDC

**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	114	111	108	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	99	96	106	102	98	95	98	96	93		96	93	91		93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86		90	87	84		88	85	83	82
4	98	90	85	81	96	89	84	80	87	83	79		85	81	79		83	80	78	76
5	93	85	79	75	91	84	79	75	82	77	74		80	76	73		79	75	73	71
6	88	80	74	70	87	79	73	69	77	73	69		76	72	68		75	71	68	67
7	84	75	69	65	83	74	69	65	73	68	64		72	67	64		71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67	63	60	59
9	76	67	61	57	75	66	61	57	65	60	57		65	60	57		64	60	56	55
10	73	63	58	54	72	63	57	54	62	57	54		61	57	53		61	56	53	52

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

	0°
0°	304504
5°	305117
10°	310126
15°	312391
20°	285566
25°	224396
30°	164253
35°	116513
40°	55103
45°	21025
50°	9424
55°	2561
60°	1096
65°	869
70°	529
75°	699
80°	0
85°	0



TEST NUMBER: P582832  
 CATALOG NUMBER: HCC6W50D010MW-HM64560940-61NDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.4	10.4
10°-20°	1521.3	29.8
20°-30°	1692.2	33.2
30°-40°	1057.1	20.7
40°-50°	251.2	4.9
50°-60°	35.9	0.7
60°-70°	7.4	0.1
70°-80°	3.0	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°	3744.0	73.4
0°-40°	4801.1	94.2
0°-60°	5088.2	99.8
0°-90°	5098.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5098.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5555	
5°	5545	530
15°	5504	1521
25°	3710	1692
35°	1741	1057
45°	271	251
55°	27	36
65°	7	7
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P582832  
CATALOG NUMBER: HCC6W50D010MW-HM64560940-61NDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5554.6
2.5°	5531.1
5°	5544.6
7.5°	5564.6
10°	5571.2
12.5°	5567.9
15°	5504.3
17.5°	5290.1
20°	4895.0
22.5°	4339.2
25°	3709.8
27.5°	3107.1
30°	2594.8
32.5°	2169.6
35°	1741.0
37.5°	1279.0
40°	770.0
42.5°	445.4
45°	271.2
47.5°	174.1
50°	110.5
52.5°	63.7
55°	26.8
57.5°	13.3
60°	10.0
62.5°	10.0
65°	6.7
67.5°	6.7
70°	3.3
72.5°	3.3
75°	3.3
77.5°	3.3
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)