

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: P593312

Luminaire Tested: **HCC6W45D010MW-HM64560850-61WDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010MW-HM64560850-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

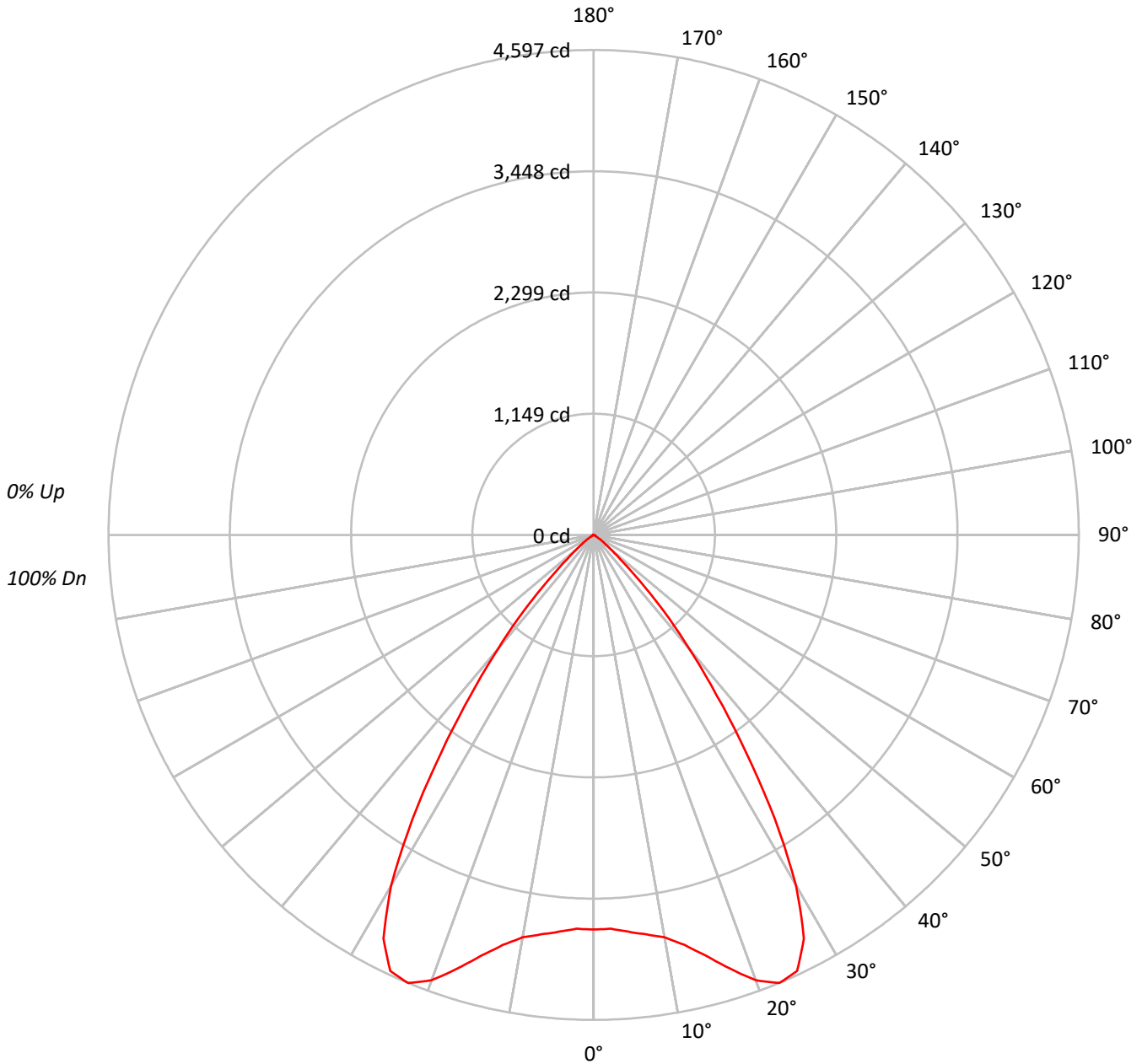
Lumens per Lamp: N/A  
Luminaire Lumens: 5783.2 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P593312  
CATALOG NUMBER: HCC6W45D010MW-HM64560850-61WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P593312

CATALOG NUMBER: HCC6W45D010MW-HM64560850-61WDC

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

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

	0°
0°	205027
5°	207781
10°	215577
15°	234439
20°	262109
25°	275889
30°	242873
35°	168465
40°	100588
45°	47819
50°	18046
55°	7541
60°	2357
65°	1855
70°	1154
75°	763
80°	1137
85°	0



TEST NUMBER: P593312  
 CATALOG NUMBER: HCC6W45D010MW-HM64560850-61WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.4	6.3
10°-20°	1186.1	20.5
20°-30°	2032.5	35.1
30°-40°	1578.5	27.3
40°-50°	521.9	9.0
50°-60°	80.0	1.4
60°-70°	14.1	0.2
70°-80°	5.2	0.1
80°-90°	1.5	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°	3582.0	61.9
0°-40°	5160.5	89.2
0°-60°	5762.4	99.6
0°-90°	5783.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5783.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3740	
5°	3776	363
15°	4131	1186
25°	4561	2032
35°	2517	1578
45°	617	522
55°	79	80
65°	14	14
75°	4	5
85°	0	1
90°	0	



TEST NUMBER: P593312  
CATALOG NUMBER: HCC6W45D010MW-HM64560850-61WDC

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3740.0
2.5°	3736.4
5°	3775.8
7.5°	3818.8
10°	3872.7
12.5°	3980.2
15°	4130.8
17.5°	4313.7
20°	4492.9
22.5°	4597.0
25°	4561.1
27.5°	4313.7
30°	3836.8
32.5°	3194.9
35°	2517.3
37.5°	1911.2
40°	1405.6
42.5°	993.3
45°	616.8
47.5°	344.3
50°	211.6
52.5°	129.0
55°	78.9
57.5°	39.4
60°	21.5
62.5°	17.9
65°	14.3
67.5°	10.8
70°	7.2
72.5°	7.2
75°	3.6
77.5°	3.6
80°	3.6
82.5°	3.6
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)