

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: P582745

Luminaire Tested: **HCC6S50D010MW-HM64560835-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582745  
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: HCC6S50D010MW-HM64560835-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

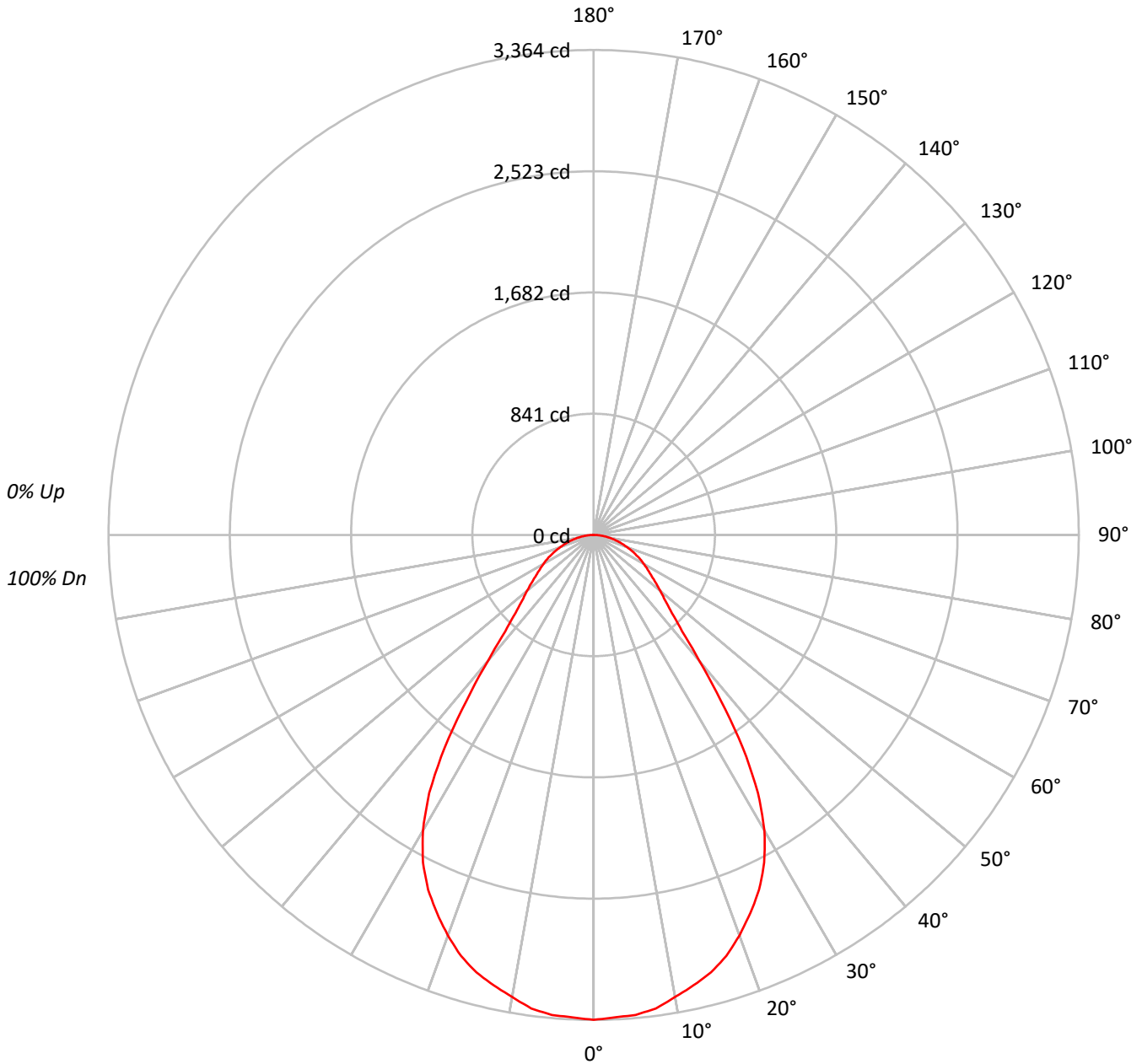
Lumens per Lamp: N/A  
Luminaire Lumens: 5159.4 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P582745  
CATALOG NUMBER: HCC6S50D010MW-HM64560835-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582745

CATALOG NUMBER: HCC6S50D010MW-HM64560835-61PSMDW

**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	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°	184404
5°	183909
10°	181165
15°	178298
20°	172431
25°	164229
30°	149960
35°	120729
40°	81374
45°	59332
50°	51290
55°	46326
60°	43955
65°	41613
70°	39141
75°	37045
80°	34537
85°	32079



TEST NUMBER: P582745  
 CATALOG NUMBER: HCC6S50D010MW-HM64560835-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.3	6.1
10°-20°	882.2	17.1
20°-30°	1239.5	24.0
30°-40°	1103.3	21.4
40°-50°	616.6	12.0
50°-60°	439.3	8.5
60°-70°	319.7	6.2
70°-80°	185.0	3.6
80°-90°	57.5	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°	2438.0	47.3
0°-40°	3541.3	68.6
0°-60°	4597.2	89.1
0°-90°	5159.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5159.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3364	
5°	3342	316
15°	3142	882
25°	2715	1239
35°	1804	1103
45°	765	617
55°	485	439
65°	321	320
75°	175	185
85°	51	58
90°	0	



TEST NUMBER: P582745  
CATALOG NUMBER: HCC6S50D010MW-HM64560835-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3363.8
2.5°	3349.3
5°	3342.0
7.5°	3312.8
10°	3254.5
12.5°	3199.9
15°	3141.6
17.5°	3061.4
20°	2955.7
22.5°	2839.0
25°	2715.1
27.5°	2562.1
30°	2369.0
32.5°	2121.1
35°	1804.0
37.5°	1446.8
40°	1137.1
42.5°	907.5
45°	765.3
47.5°	670.6
50°	601.4
52.5°	539.4
55°	484.7
57.5°	441.0
60°	400.9
62.5°	364.5
65°	320.8
67.5°	284.3
70°	244.2
72.5°	207.7
75°	174.9
77.5°	142.2
80°	109.4
82.5°	80.2
85°	51.0
87.5°	25.5
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)