

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: P582823

Luminaire Tested: **HCC6S50D010MB-HM64560935-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S50D010MB-HM64560935-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

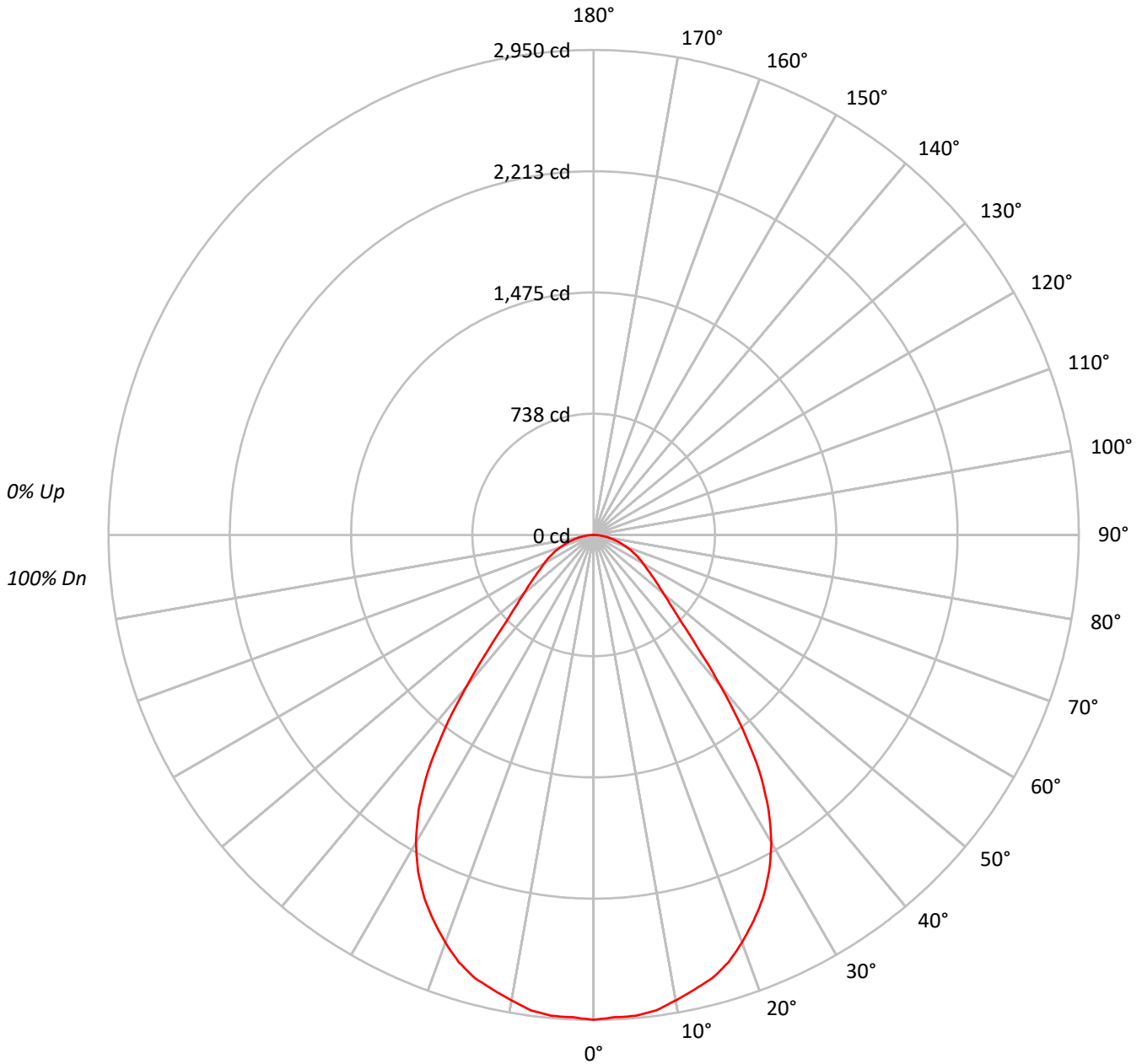
Lumens per Lamp: N/A  
Luminaire Lumens: 4738.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582823  
CATALOG NUMBER: HCC6S50D010MB-HM64560935-61WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582823

CATALOG NUMBER: HCC6S50D010MB-HM64560935-61WDW

**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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

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

	0°
0°	161692
5°	161600
10°	160034
15°	158378
20°	153897
25°	147402
30°	136800
35°	117698
40°	85918
45°	58867
50°	47316
55°	41241
60°	38067
65°	36204
70°	33804
75°	31623
80°	28665
85°	24531



TEST NUMBER: P582823  
 CATALOG NUMBER: HCC6S50D010MB-HM64560935-61WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.4	5.9
10°-20°	783.7	16.5
20°-30°	1114.6	23.5
30°-40°	1073.1	22.6
40°-50°	617.4	13.0
50°-60°	391.2	8.3
60°-70°	276.9	5.8
70°-80°	157.9	3.3
80°-90°	45.0	1.0
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°	2176.7	45.9
0°-40°	3249.8	68.6
0°-60°	4258.5	89.9
0°-90°	4738.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4738.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2950	
5°	2937	278
15°	2791	784
25°	2437	1115
35°	1759	1073
45°	759	617
55°	432	391
65°	279	277
75°	149	158
85°	39	45
90°	0	



TEST NUMBER: P582823  
CATALOG NUMBER: HCC6S50D010MB-HM64560935-61WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2949.5
2.5°	2936.6
5°	2936.6
7.5°	2917.1
10°	2874.9
12.5°	2832.7
15°	2790.6
17.5°	2725.6
20°	2638.0
22.5°	2540.7
25°	2436.9
27.5°	2310.3
30°	2161.1
32.5°	1979.4
35°	1758.7
37.5°	1489.4
40°	1200.6
42.5°	947.5
45°	759.3
47.5°	639.3
50°	554.8
52.5°	486.7
55°	431.5
57.5°	382.9
60°	347.2
62.5°	314.7
65°	279.1
67.5°	246.6
70°	210.9
72.5°	178.4
75°	149.3
77.5°	120.1
80°	90.8
82.5°	65.0
85°	39.0
87.5°	16.2
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)