

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: P582817

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582817  
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: HCC6S50D010MB-HM64560935-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

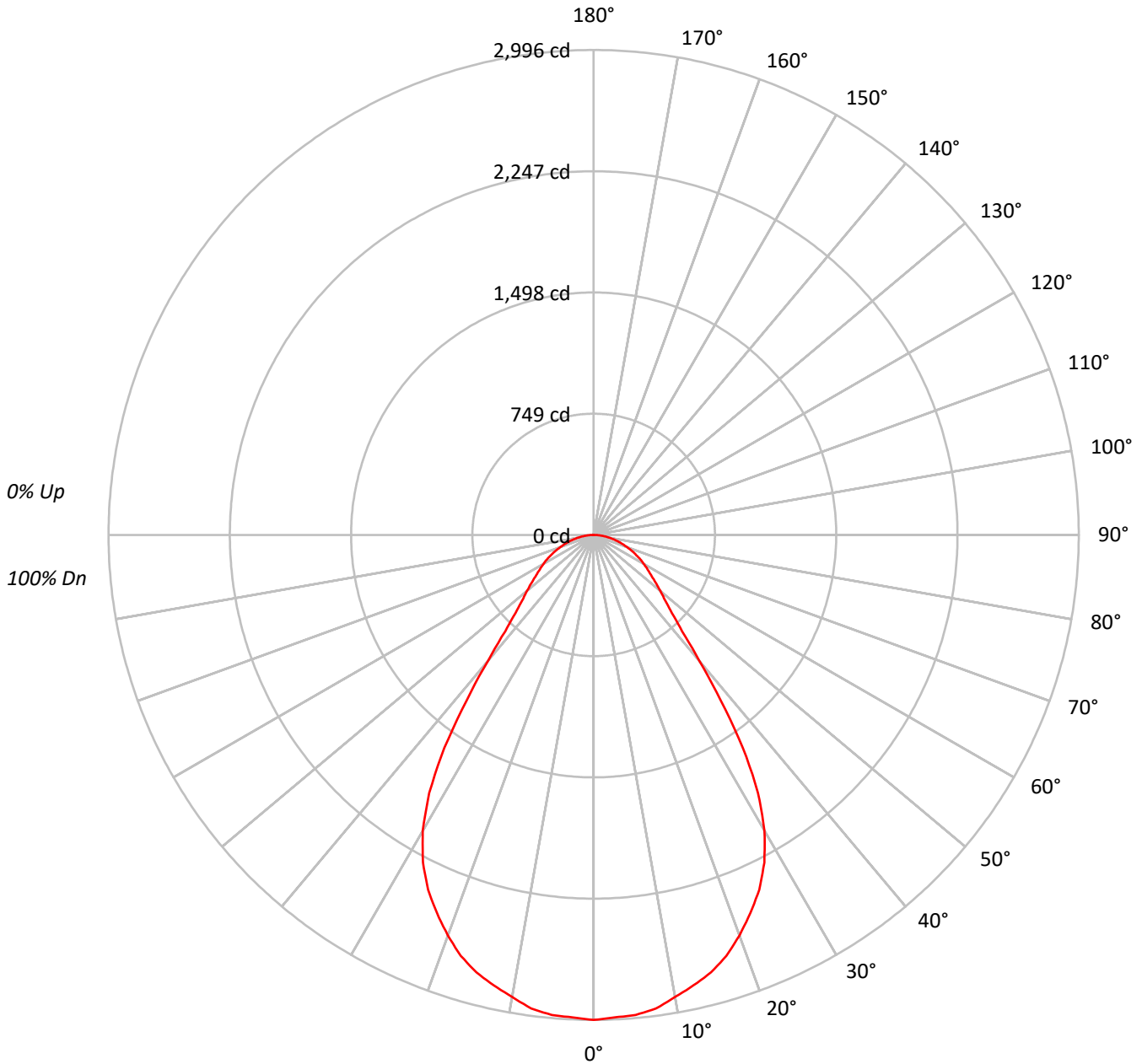
Lumens per Lamp: N/A  
Luminaire Lumens: 4595.6 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582817  
CATALOG NUMBER: HCC6S50D010MB-HM64560935-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582817  
 CATALOG NUMBER: HCC6S50D010MB-HM64560935-61PSMDW

**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		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°	164252
5°	163807
10°	161370
15°	158815
20°	153588
25°	146289
30°	133565
35°	107539
40°	72479
45°	52850
50°	45679
55°	41270
60°	39153
65°	37060
70°	34862
75°	33000
80°	30749
85°	28619



TEST NUMBER: P582817  
 CATALOG NUMBER: HCC6S50D010MB-HM64560935-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.7	6.1
10°-20°	785.8	17.1
20°-30°	1104.0	24.0
30°-40°	982.7	21.4
40°-50°	549.2	12.0
50°-60°	391.3	8.5
60°-70°	284.7	6.2
70°-80°	164.8	3.6
80°-90°	51.3	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°	2171.6	47.3
0°-40°	3154.3	68.6
0°-60°	4094.8	89.1
0°-90°	4595.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4595.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2996	
5°	2977	282
15°	2798	786
25°	2418	1104
35°	1607	983
45°	682	549
55°	432	391
65°	286	285
75°	156	165
85°	46	51
90°	0	



TEST NUMBER: P582817  
CATALOG NUMBER: HCC6S50D010MB-HM64560935-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2996.2
2.5°	2983.2
5°	2976.7
7.5°	2950.8
10°	2898.9
12.5°	2850.1
15°	2798.3
17.5°	2726.8
20°	2632.7
22.5°	2528.8
25°	2418.5
27.5°	2282.0
30°	2110.0
32.5°	1889.2
35°	1606.9
37.5°	1288.7
40°	1012.8
42.5°	808.3
45°	681.7
47.5°	597.3
50°	535.6
52.5°	480.4
55°	431.8
57.5°	392.8
60°	357.1
62.5°	324.7
65°	285.7
67.5°	253.2
70°	217.5
72.5°	185.1
75°	155.8
77.5°	126.6
80°	97.4
82.5°	71.5
85°	45.5
87.5°	22.7
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)