

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: P581436

Luminaire Tested: **HCC4S07D010MW-HM40525830-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581436  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S07D010MW-HM40525830-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

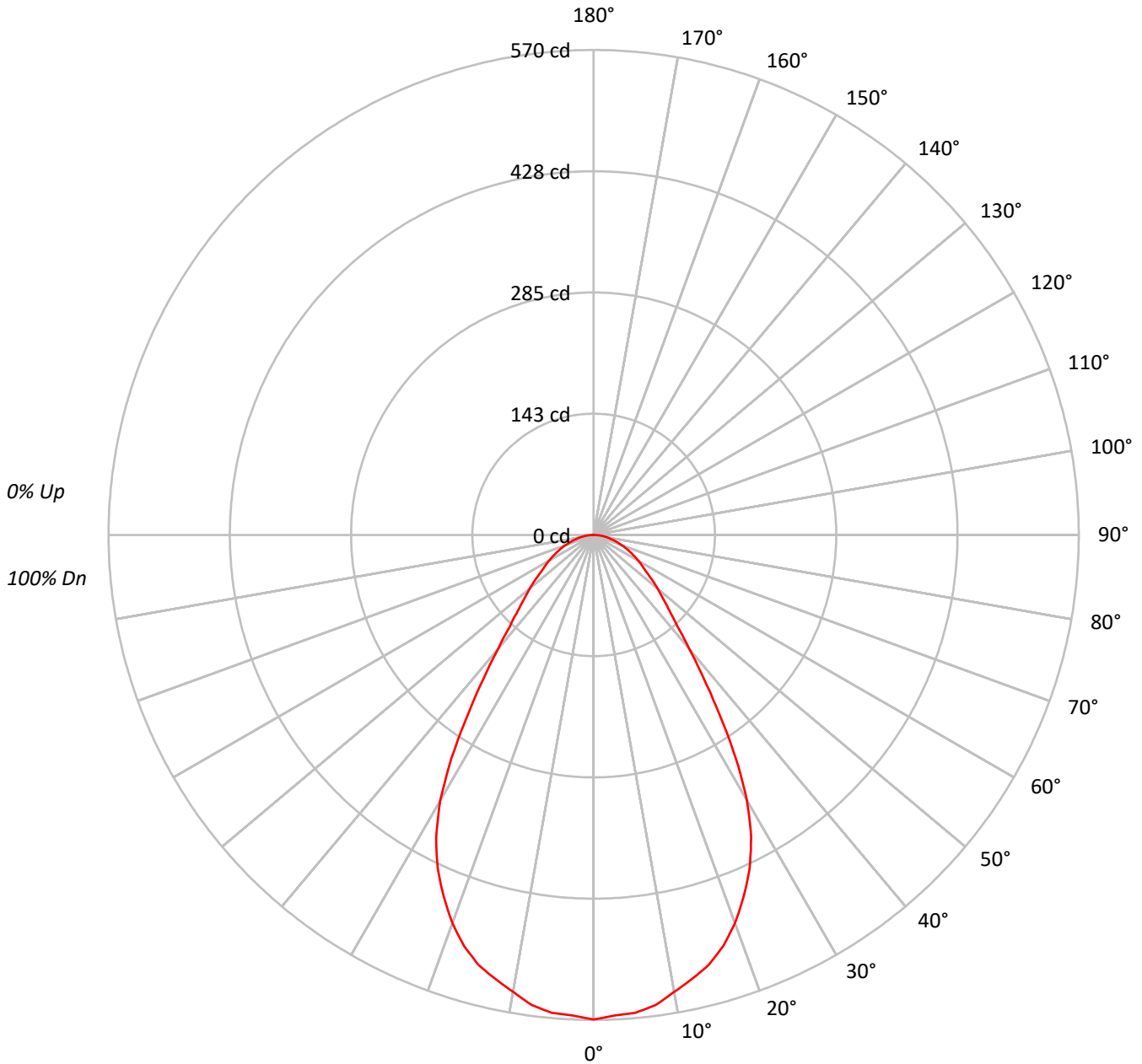
Lumens per Lamp: N/A  
Luminaire Lumens: 808.7 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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: P581436  
CATALOG NUMBER: HCC4S07D010MW-HM40525830-41PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581436  
 CATALOG NUMBER: HCC4S07D010MW-HM40525830-41PSMDW

**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	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78		
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63		
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57		
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°
0°	70245
5°	69796
10°	68310
15°	66798
20°	63714
25°	58984
30°	51302
35°	38744
40°	28065
45°	21927
50°	18767
55°	16215
60°	14974
65°	13688
70°	12767
75°	11724
80°	11010
85°	10473



TEST NUMBER: P581436  
 CATALOG NUMBER: HCC4S07D010MW-HM40525830-41PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	6.6
10°-20°	146.5	18.1
20°-30°	197.0	24.4
30°-40°	162.0	20.0
40°-50°	99.5	12.3
50°-60°	68.9	8.5
60°-70°	47.0	5.8
70°-80°	26.2	3.2
80°-90°	8.3	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°	396.8	49.1
0°-40°	558.8	69.1
0°-60°	727.2	89.9
0°-90°	808.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	570	
5°	564	53
15°	523	147
25°	433	197
35°	257	162
45°	126	99
55°	75	69
65°	47	47
75°	25	26
85°	7	8
90°	0	



TEST NUMBER: P581436  
CATALOG NUMBER: HCC4S07D010MW-HM40525830-41PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	569.5
2.5°	565.4
5°	563.7
7.5°	557.4
10°	545.4
12.5°	534.5
15°	523.1
17.5°	506.5
20°	485.4
22.5°	460.2
25°	433.4
27.5°	400.8
30°	360.2
32.5°	310.4
35°	257.3
37.5°	211.6
40°	174.3
42.5°	145.8
45°	125.7
47.5°	110.4
50°	97.8
52.5°	86.4
55°	75.4
57.5°	67.5
60°	60.7
62.5°	53.7
65°	46.9
67.5°	41.2
70°	35.4
72.5°	29.7
75°	24.6
77.5°	19.5
80°	15.5
82.5°	11.4
85°	7.4
87.5°	4.0
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)