

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: P579821

Luminaire Tested: **HCC4S10D010MW-HM40525940-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579821  
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: HCC4S10D010MW-HM40525940-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

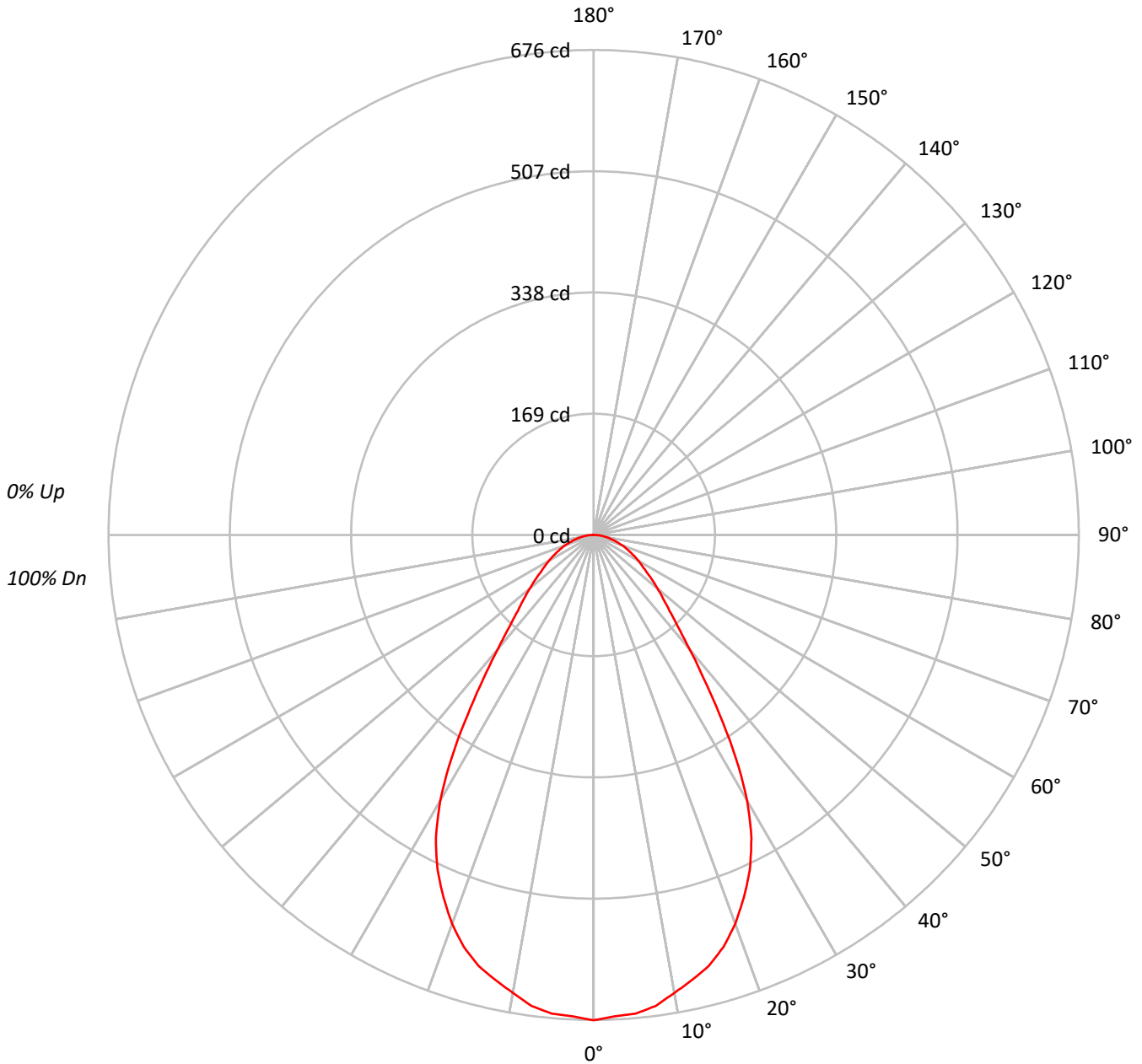
Lumens per Lamp: N/A  
Luminaire Lumens: 960.7 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P579821  
CATALOG NUMBER: HCC4S10D010MW-HM40525940-41PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P579821

CATALOG NUMBER: HCC4S10D010MW-HM40525940-41PSMDW

**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	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	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	92	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°	83443
5°	82920
10°	81161
15°	79376
20°	75699
25°	70076
30°	60945
35°	46031
40°	33363
45°	26061
50°	22298
55°	19290
60°	17762
65°	16227
70°	15183
75°	13916
80°	12999
85°	12596



TEST NUMBER: P579821  
 CATALOG NUMBER: HCC4S10D010MW-HM40525940-41PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	6.6
10°-20°	174.1	18.1
20°-30°	234.1	24.4
30°-40°	192.5	20.0
40°-50°	118.2	12.3
50°-60°	81.8	8.5
60°-70°	55.7	5.8
70°-80°	31.1	3.2
80°-90°	9.9	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°	471.5	49.1
0°-40°	664.0	69.1
0°-60°	864.0	89.9
0°-90°	960.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	676	
5°	670	63
15°	622	174
25°	515	234
35°	306	193
45°	149	118
55°	90	82
65°	56	56
75°	29	31
85°	9	10
90°	0	



TEST NUMBER: P579821  
CATALOG NUMBER: HCC4S10D010MW-HM40525940-41PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	676.5
2.5°	671.8
5°	669.7
7.5°	662.3
10°	648.0
12.5°	635.1
15°	621.6
17.5°	601.9
20°	576.7
22.5°	546.8
25°	514.9
27.5°	476.1
30°	427.9
32.5°	368.8
35°	305.7
37.5°	251.4
40°	207.2
42.5°	173.2
45°	149.4
47.5°	131.1
50°	116.2
52.5°	102.5
55°	89.7
57.5°	80.1
60°	72.0
62.5°	63.8
65°	55.6
67.5°	48.9
70°	42.1
72.5°	35.3
75°	29.2
77.5°	23.1
80°	18.3
82.5°	13.5
85°	8.9
87.5°	4.8
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)