

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: P579693

Luminaire Tested: **HCC4W10D010MB-HM40525827-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W10D010MB-HM40525827-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

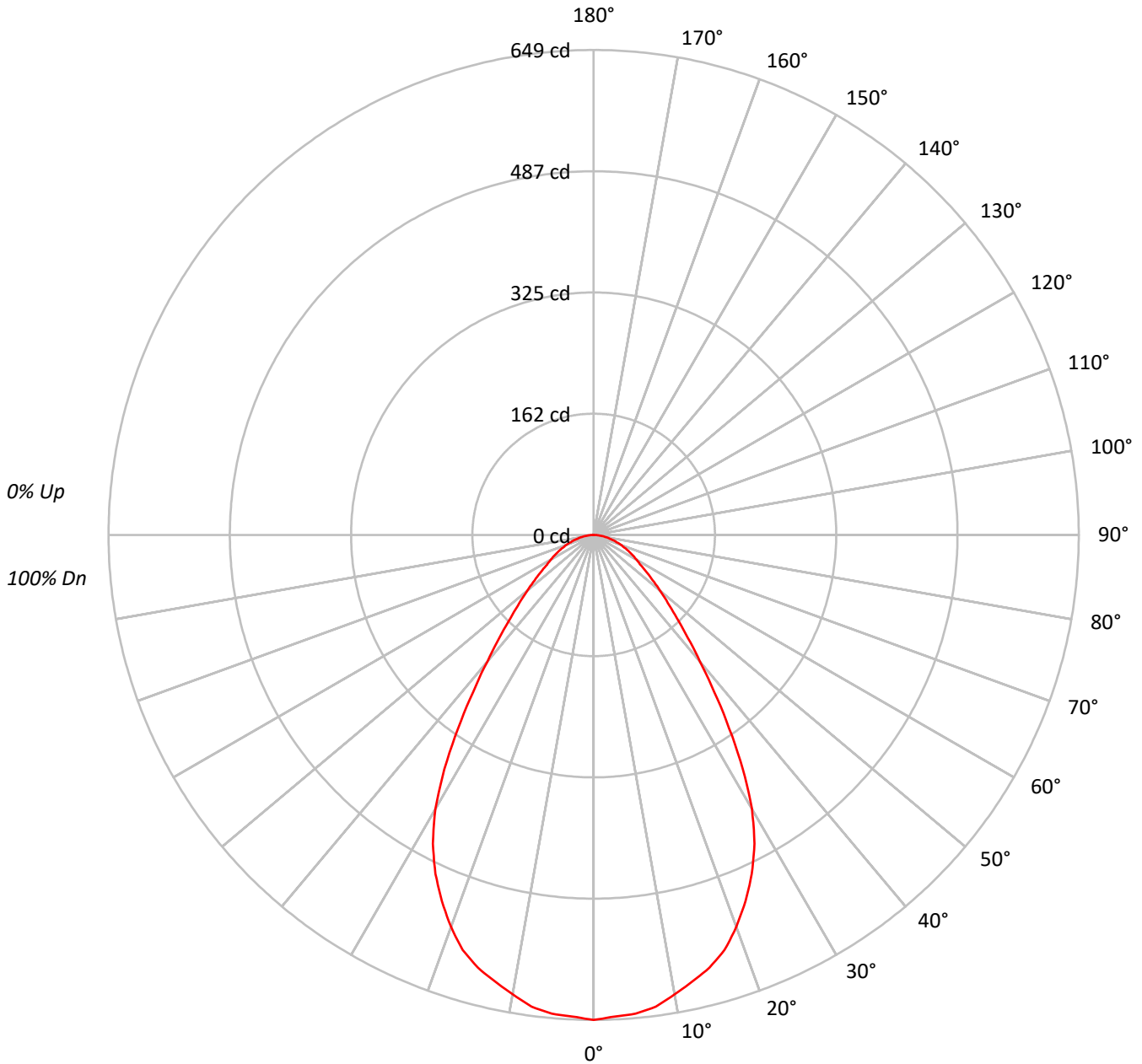
Lumens per Lamp: N/A  
Luminaire Lumens: 944.4 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579693  
CATALOG NUMBER: HCC4W10D010MB-HM40525827-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P579693

CATALOG NUMBER: HCC4W10D010MB-HM40525827-41MDW

**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			100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	80064
5°	79639
10°	78180
15°	76541
20°	73270
25°	68130
30°	60289
35°	47582
40°	35601
45°	27387
50°	22221
55°	18429
60°	16306
65°	15089
70°	13921
75°	12820
80°	11649
85°	9199



TEST NUMBER: P579693  
 CATALOG NUMBER: HCC4W10D010MB-HM40525827-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	6.4
10°-20°	168.1	17.8
20°-30°	228.2	24.2
30°-40°	197.7	20.9
40°-50°	124.1	13.1
50°-60°	78.1	8.3
60°-70°	51.3	5.4
70°-80°	28.3	3.0
80°-90°	7.8	0.8
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°	457.1	48.4
0°-40°	654.8	69.3
0°-60°	857.0	90.8
0°-90°	944.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	944.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	649	
5°	643	61
15°	599	168
25°	501	228
35°	316	198
45°	157	124
55°	86	78
65°	52	51
75°	27	28
85°	6	8
90°	0	



TEST NUMBER: P579693  
CATALOG NUMBER: HCC4W10D010MB-HM40525827-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	649.1
2.5°	645.1
5°	643.2
7.5°	636.7
10°	624.2
12.5°	611.8
15°	599.4
17.5°	582.3
20°	558.2
22.5°	530.6
25°	500.6
27.5°	465.9
30°	423.3
32.5°	371.7
35°	316.0
37.5°	265.0
40°	221.1
42.5°	186.5
45°	157.0
47.5°	134.7
50°	115.8
52.5°	99.5
55°	85.7
57.5°	74.0
60°	66.1
62.5°	58.8
65°	51.7
67.5°	44.5
70°	38.6
72.5°	32.1
75°	26.9
77.5°	20.9
80°	16.4
82.5°	11.2
85°	6.5
87.5°	2.6
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)