

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: P580174

Luminaire Tested: **HCC4W25D010SL-HM40525840-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580174  
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: HCC4W25D010SL-HM40525840-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

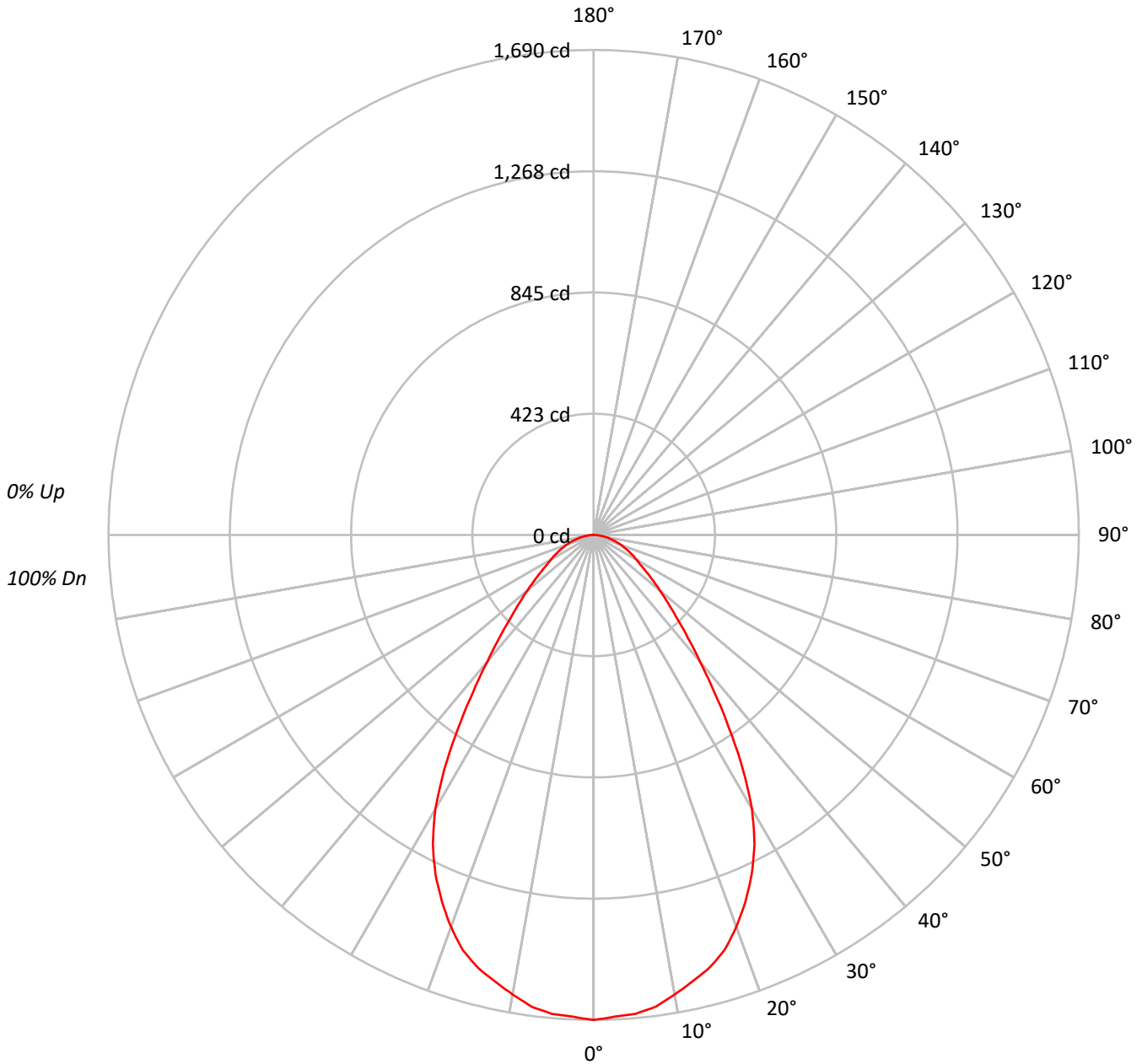
Lumens per Lamp: N/A  
Luminaire Lumens: 2459.4 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P580174  
CATALOG NUMBER: HCC4W25D010SL-HM40525840-41MDW

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P580174

CATALOG NUMBER: HCC4W25D010SL-HM40525840-41MDW

**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°	208516
5°	207406
10°	203629
15°	199335
20°	190802
25°	177429
30°	157040
35°	123925
40°	92745
45°	71345
50°	57894
55°	47998
60°	42456
65°	39284
70°	36280
75°	33312
80°	30260
85°	24059



TEST NUMBER: P580174  
 CATALOG NUMBER: HCC4W25D010SL-HM40525840-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.4	6.4
10°-20°	437.8	17.8
20°-30°	594.4	24.2
30°-40°	514.9	20.9
40°-50°	323.3	13.1
50°-60°	203.4	8.3
60°-70°	133.6	5.4
70°-80°	73.7	3.0
80°-90°	20.2	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°	1190.5	48.4
0°-40°	1705.4	69.3
0°-60°	2232.0	90.8
0°-90°	2459.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2459.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1690	
5°	1675	158
15°	1561	438
25°	1304	594
35°	823	515
45°	409	323
55°	223	203
65°	135	134
75°	70	74
85°	17	20
90°	0	



TEST NUMBER: P580174  
CATALOG NUMBER: HCC4W25D010SL-HM40525840-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1690.5
2.5°	1680.3
5°	1675.1
7.5°	1658.0
10°	1625.8
12.5°	1593.4
15°	1561.0
17.5°	1516.7
20°	1453.6
22.5°	1382.0
25°	1303.7
27.5°	1213.3
30°	1102.6
32.5°	967.9
35°	823.0
37.5°	690.2
40°	576.0
42.5°	485.7
45°	409.0
47.5°	351.0
50°	301.7
52.5°	259.0
55°	223.2
57.5°	192.6
60°	172.1
62.5°	153.3
65°	134.6
67.5°	115.8
70°	100.6
72.5°	83.5
75°	69.9
77.5°	54.5
80°	42.6
82.5°	29.0
85°	17.0
87.5°	6.8
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)