

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: P580976

Luminaire Tested: **HCC4W05D010MB-HM40525827-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010MB-HM40525827-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

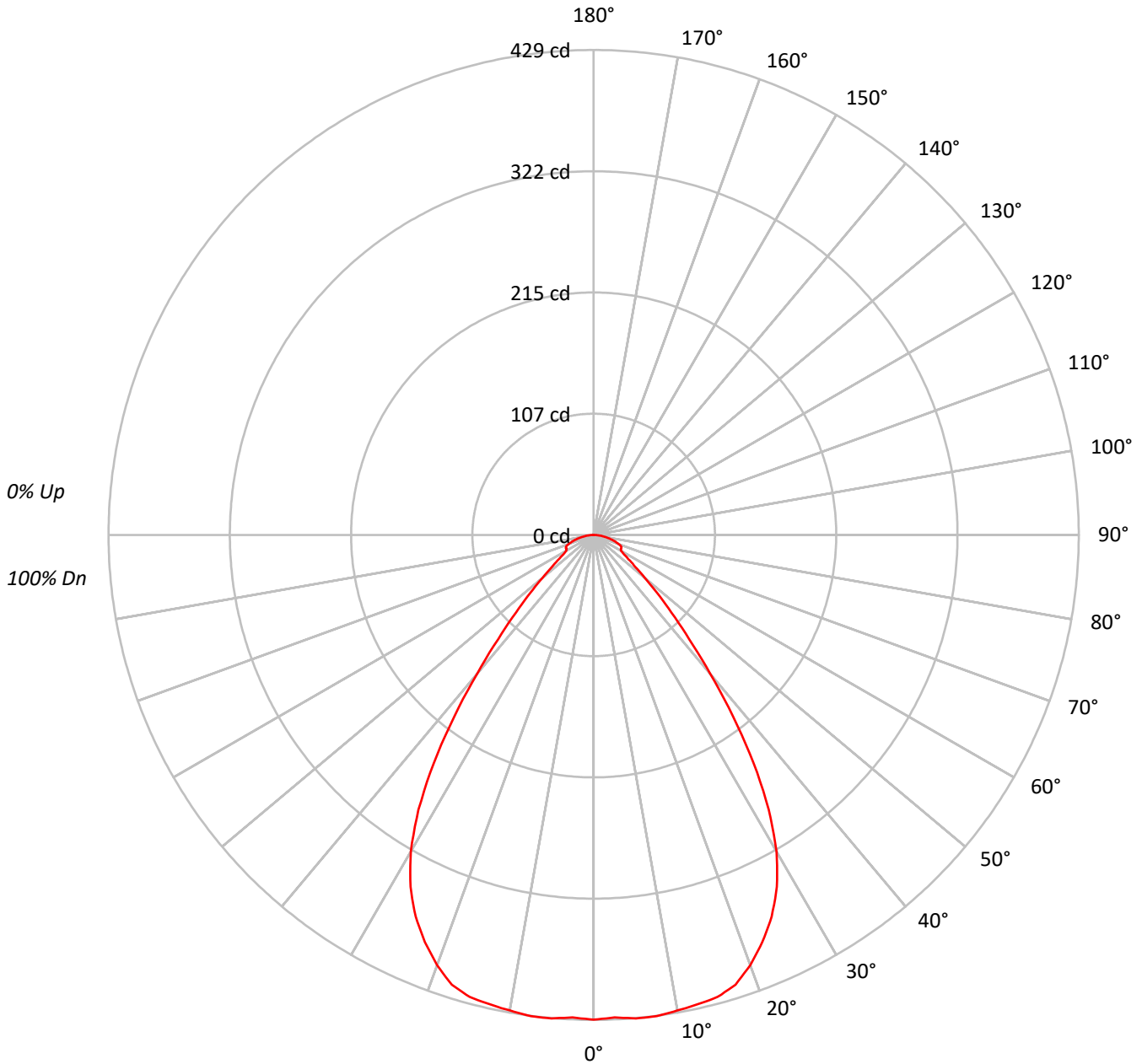
Lumens per Lamp: N/A  
Luminaire Lumens: 644.2 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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: P580976  
CATALOG NUMBER: HCC4W05D010MB-HM40525827-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P580976  
 CATALOG NUMBER: HCC4W05D010MB-HM40525827-41WDWB

**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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

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

	0°
0°	52891
5°	53155
10°	53506
15°	54041
20°	53148
25°	50696
30°	46075
35°	37147
40°	25779
45°	16920
50°	11341
55°	8086
60°	6883
65°	7909
70°	8511
75°	8149
80°	7316
85°	6793



TEST NUMBER: P580976  
 CATALOG NUMBER: HCC4W05D010MB-HM40525827-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.9	6.3
10°-20°	118.9	18.5
20°-30°	169.9	26.4
30°-40°	151.8	23.6
40°-50°	77.8	12.1
50°-60°	35.4	5.5
60°-70°	26.3	4.1
70°-80°	17.9	2.8
80°-90°	5.3	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°	329.7	51.2
0°-40°	481.4	74.7
0°-60°	594.7	92.3
0°-90°	644.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	429	
5°	429	41
15°	423	119
25°	372	170
35°	247	152
45°	97	78
55°	38	35
65°	27	26
75°	17	18
85°	5	5
90°	0	



TEST NUMBER: P580976  
CATALOG NUMBER: HCC4W05D010MB-HM40525827-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	428.8
2.5°	427.2
5°	429.3
7.5°	429.3
10°	427.2
12.5°	425.3
15°	423.2
17.5°	417.2
20°	404.9
22.5°	389.8
25°	372.5
27.5°	350.9
30°	323.5
32.5°	288.3
35°	246.7
37.5°	202.5
40°	160.1
42.5°	125.0
45°	97.0
47.5°	75.8
50°	59.1
52.5°	46.3
55°	37.6
57.5°	31.6
60°	27.9
62.5°	27.1
65°	27.1
67.5°	26.3
70°	23.6
72.5°	20.3
75°	17.1
77.5°	13.6
80°	10.3
82.5°	7.6
85°	4.8
87.5°	2.0
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)