

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: P592552

Luminaire Tested: **HCC4W05D010MW-HM40525950-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010MW-HM40525950-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

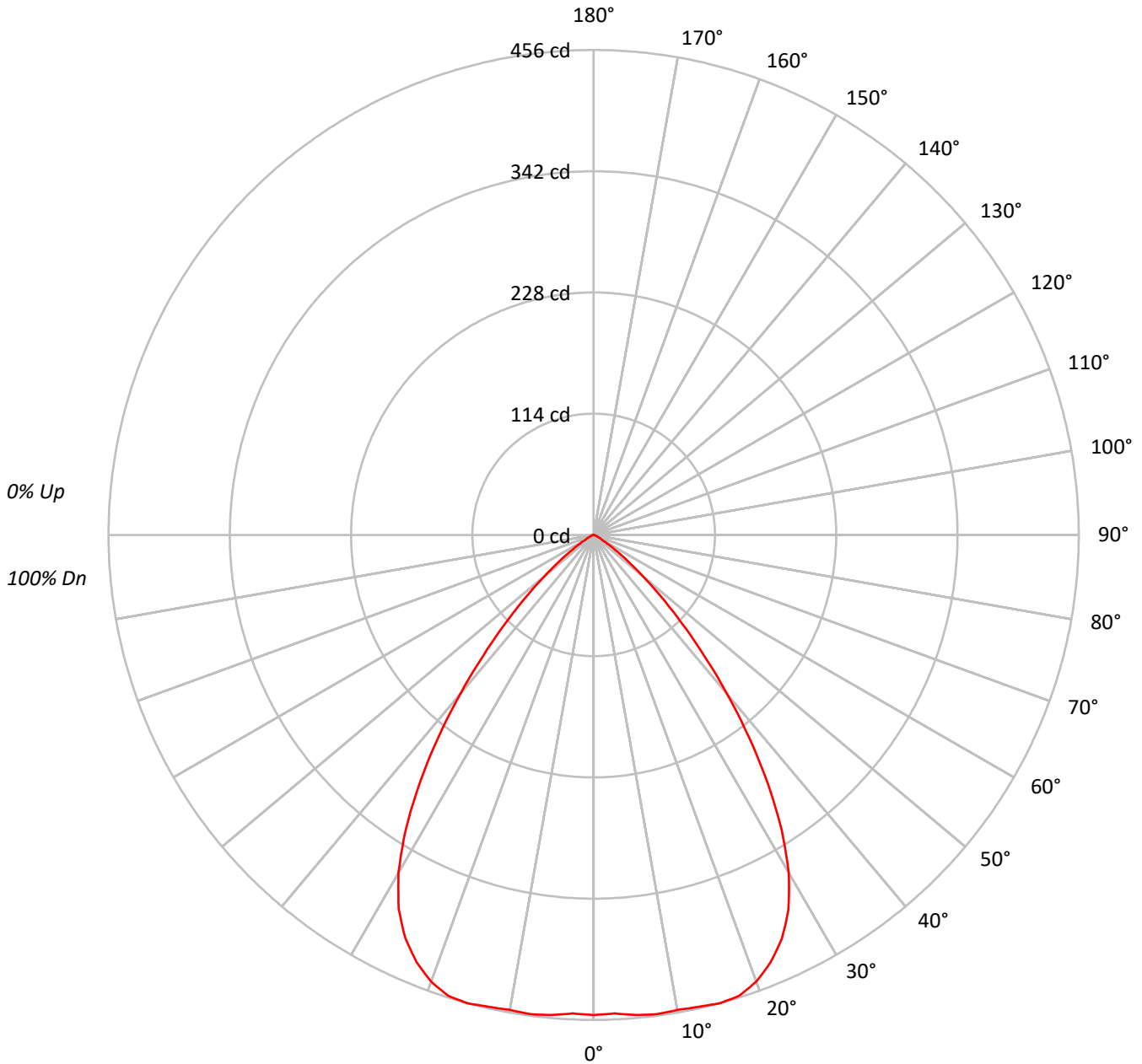
Lumens per Lamp: N/A  
Luminaire Lumens: 662.4 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P592552  
CATALOG NUMBER: HCC4W05D010MW-HM40525950-41WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P592552

CATALOG NUMBER: HCC4W05D010MW-HM40525950-41WDH

**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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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

	0°
0°	55691
5°	56114
10°	56800
15°	58230
20°	58674
25°	56984
30°	52242
35°	42990
40°	31350
45°	20339
50°	11456
55°	5441
60°	2146
65°	1313
70°	902
75°	572
80°	355
85°	708



TEST NUMBER: P592552  
 CATALOG NUMBER: HCC4W05D010MW-HM40525950-41WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.3	6.5
10°-20°	128.6	19.4
20°-30°	190.7	28.8
30°-40°	176.1	26.6
40°-50°	92.0	13.9
50°-60°	25.2	3.8
60°-70°	4.8	0.7
70°-80°	1.4	0.2
80°-90°	0.3	0.1
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°	362.6	54.7
0°-40°	538.7	81.3
0°-60°	655.9	99.0
0°-90°	662.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	662.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	452	
5°	453	43
15°	456	129
25°	419	191
35°	286	176
45°	117	92
55°	25	25
65°	4	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P592552  
CATALOG NUMBER: HCC4W05D010MW-HM40525950-41WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	451.5
2.5°	450.3
5°	453.2
7.5°	454.5
10°	453.5
12.5°	454.5
15°	456.0
17.5°	454.5
20°	447.0
22.5°	434.9
25°	418.7
27.5°	396.7
30°	366.8
32.5°	329.0
35°	285.5
37.5°	239.8
40°	194.7
42.5°	153.1
45°	116.6
47.5°	85.5
50°	59.7
52.5°	39.8
55°	25.3
57.5°	15.0
60°	8.7
62.5°	6.2
65°	4.5
67.5°	3.3
70°	2.5
72.5°	1.7
75°	1.2
77.5°	0.8
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.0
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)