

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: P581093

Luminaire Tested: **HCC4S05D010MW-HM40525935-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S05D010MW-HM40525935-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

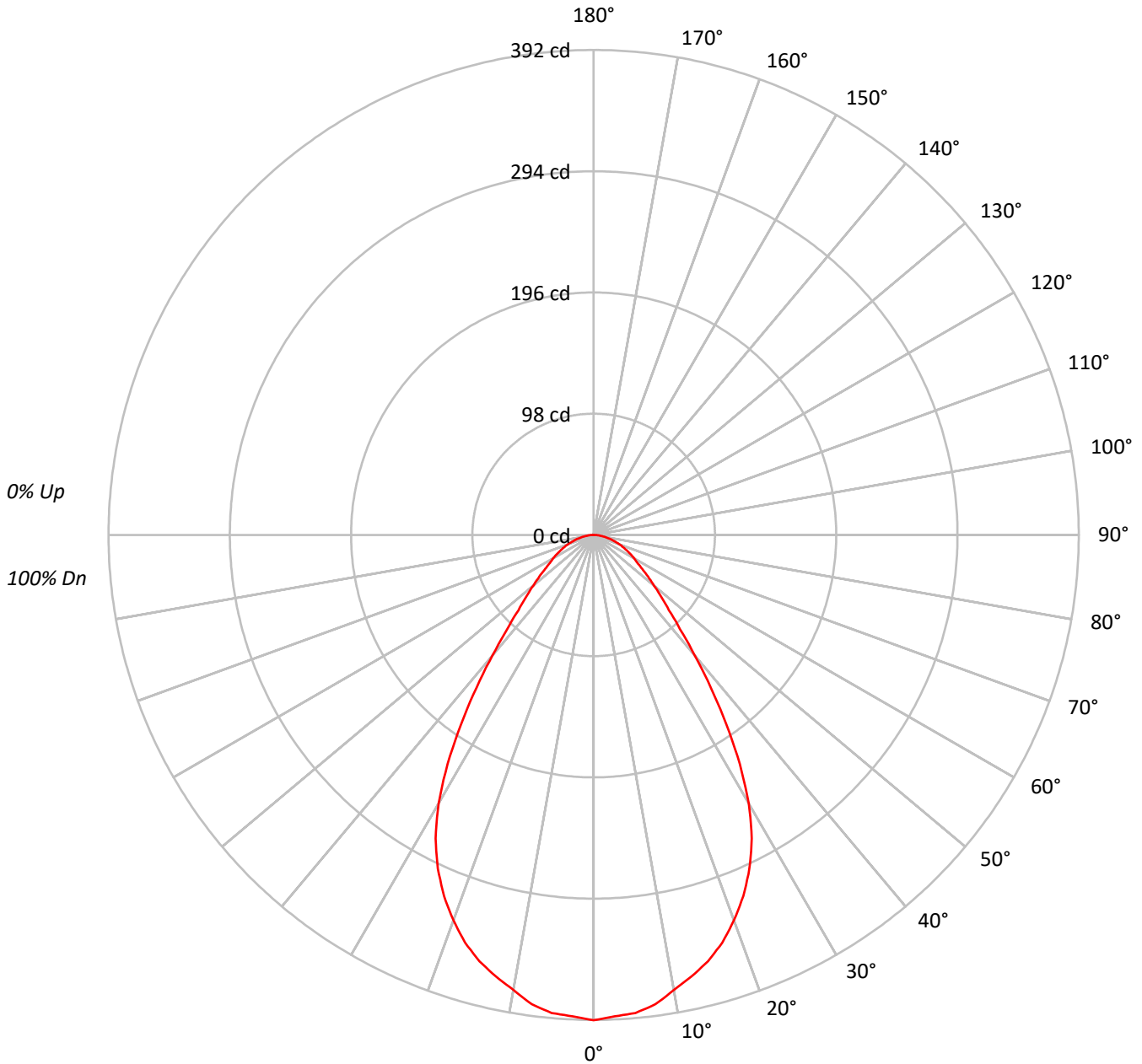
Lumens per Lamp: N/A  
Luminaire Lumens: 550.8 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P581093  
CATALOG NUMBER: HCC4S05D010MW-HM40525935-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581093

CATALOG NUMBER: HCC4S05D010MW-HM40525935-41NDW

**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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89	89	89	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71	71	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64	64	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58	58	58	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52	52	52	52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48	48	48	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38	38	38	38

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

	0°
0°	48388
5°	48029
10°	46780
15°	45549
20°	43500
25°	40530
30°	35692
35°	28143
40°	20433
45°	15002
50°	12224
55°	10258
60°	9300
65°	8522
70°	7934
75°	7244
80°	6535
85°	5661



TEST NUMBER: P581093  
 CATALOG NUMBER: HCC4S05D010MW-HM40525935-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.6	6.6
10°-20°	100.0	18.2
20°-30°	135.6	24.6
30°-40°	116.4	21.1
40°-50°	68.7	12.5
50°-60°	43.6	7.9
60°-70°	29.3	5.3
70°-80°	16.1	2.9
80°-90°	4.5	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°	272.2	49.4
0°-40°	388.6	70.5
0°-60°	500.9	90.9
0°-90°	550.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	550.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	392	
5°	388	37
15°	357	100
25°	298	136
35°	187	116
45°	86	69
55°	48	44
65°	29	29
75°	15	16
85°	4	5
90°	0	



TEST NUMBER: P581093  
CATALOG NUMBER: HCC4S05D010MW-HM40525935-41NDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	392.3
2.5°	389.5
5°	387.9
7.5°	382.7
10°	373.5
12.5°	365.5
15°	356.7
17.5°	345.5
20°	331.4
22.5°	315.9
25°	297.8
27.5°	276.6
30°	250.6
32.5°	219.7
35°	186.9
37.5°	155.3
40°	126.9
42.5°	103.3
45°	86.0
47.5°	73.7
50°	63.7
52.5°	55.3
55°	47.7
57.5°	41.7
60°	37.7
62.5°	33.6
65°	29.2
67.5°	25.7
70°	22.0
72.5°	18.4
75°	15.2
77.5°	12.0
80°	9.2
82.5°	6.4
85°	4.0
87.5°	1.6
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)