

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: P581542

Luminaire Tested: **HCC4S07D010BZ-HM40525950-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581542  
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: HCC4S07D010BZ-HM40525950-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

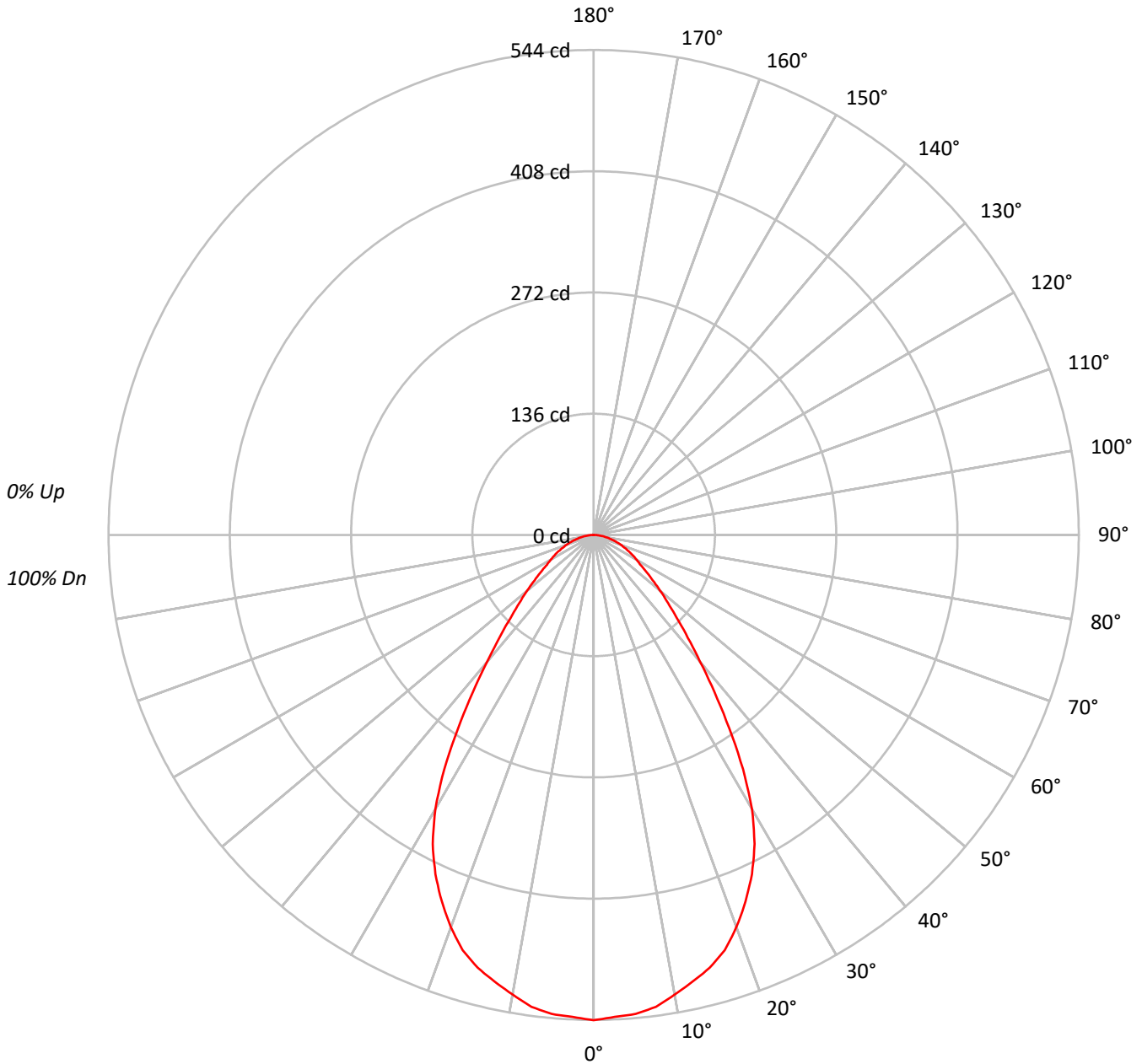
Lumens per Lamp: N/A  
Luminaire Lumens: 792.1 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P581542  
CATALOG NUMBER: HCC4S07D010BZ-HM40525950-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581542

CATALOG NUMBER: HCC4S07D010BZ-HM40525950-41MDW

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

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

	0°
0°	67149
5°	66787
10°	65580
15°	64193
20°	61457
25°	57133
30°	50576
35°	39903
40°	29869
45°	22973
50°	18652
55°	15462
60°	13667
65°	12667
70°	11685
75°	10723
80°	9802
85°	7784



TEST NUMBER: P581542  
 CATALOG NUMBER: HCC4S07D010BZ-HM40525950-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	6.4
10°-20°	141.0	17.8
20°-30°	191.4	24.2
30°-40°	165.8	20.9
40°-50°	104.1	13.1
50°-60°	65.5	8.3
60°-70°	43.0	5.4
70°-80°	23.7	3.0
80°-90°	6.5	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°	383.4	48.4
0°-40°	549.2	69.3
0°-60°	718.8	90.8
0°-90°	792.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	792.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	544	
5°	539	51
15°	503	141
25°	420	191
35°	265	166
45°	132	104
55°	72	65
65°	43	43
75°	22	24
85°	6	7
90°	0	



TEST NUMBER: P581542  
CATALOG NUMBER: HCC4S07D010BZ-HM40525950-41MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	544.4
2.5°	541.1
5°	539.4
7.5°	533.9
10°	523.6
12.5°	513.1
15°	502.7
17.5°	488.4
20°	468.2
22.5°	445.1
25°	419.8
27.5°	390.8
30°	355.1
32.5°	311.7
35°	265.0
37.5°	222.3
40°	185.5
42.5°	156.4
45°	131.7
47.5°	113.0
50°	97.2
52.5°	83.4
55°	71.9
57.5°	62.0
60°	55.4
62.5°	49.4
65°	43.4
67.5°	37.3
70°	32.4
72.5°	26.9
75°	22.5
77.5°	17.5
80°	13.8
82.5°	9.3
85°	5.5
87.5°	2.2
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)