

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: P581526

Luminaire Tested: **HCC4S07D010BZ-HM40525935-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S07D010BZ-HM40525935-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

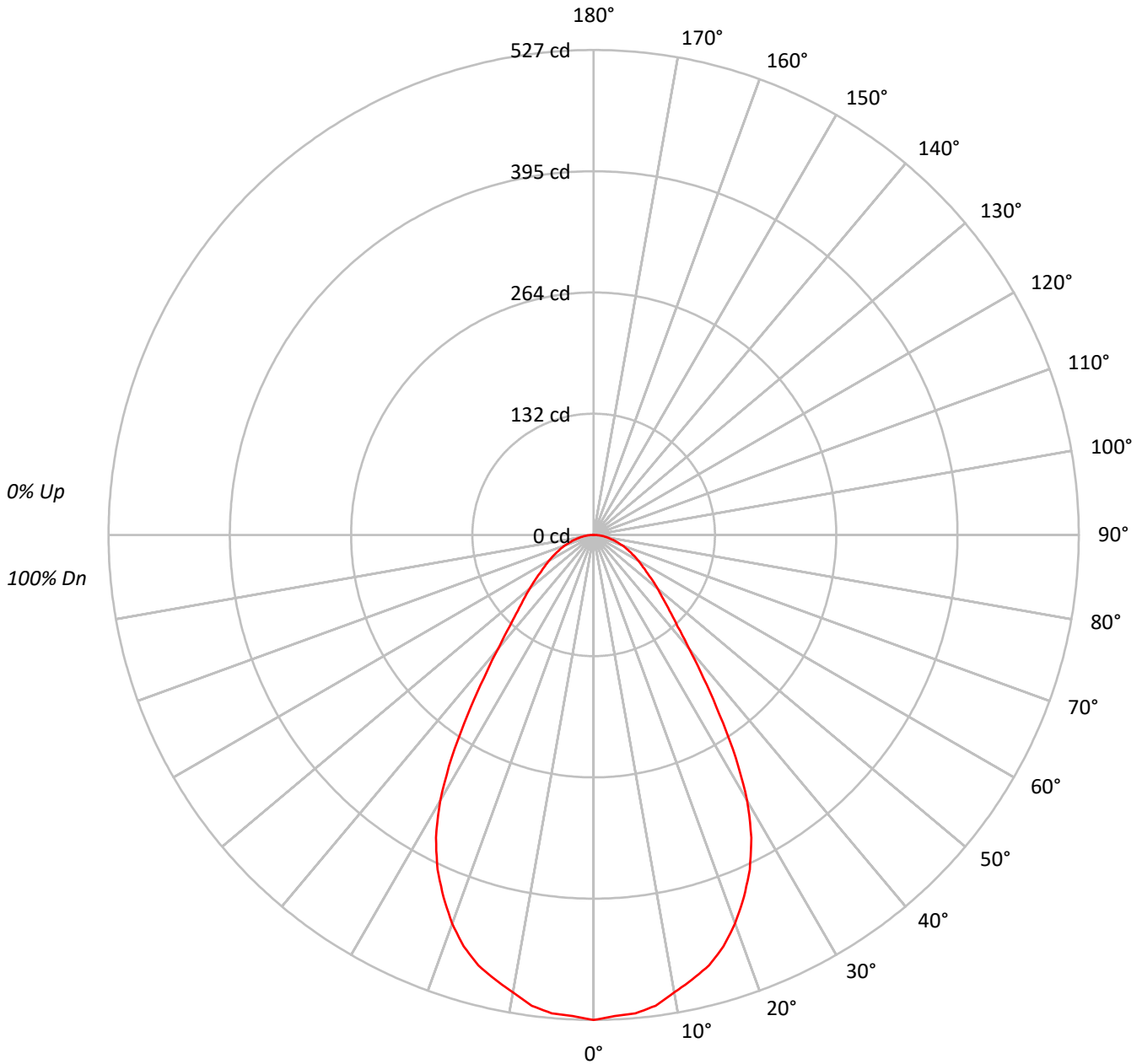
Lumens per Lamp: N/A  
Luminaire Lumens: 748.5 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P581526  
CATALOG NUMBER: HCC4S07D010BZ-HM40525935-41PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581526

CATALOG NUMBER: HCC4S07D010BZ-HM40525935-41PSMDW

**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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	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	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

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

	0°
0°	65015
5°	64608
10°	63225
15°	61831
20°	58976
25°	54588
30°	47485
35°	35867
40°	25988
45°	20304
50°	17366
55°	15032
60°	13839
65°	12667
70°	11829
75°	10866
80°	10158
85°	9624



TEST NUMBER: P581526  
 CATALOG NUMBER: HCC4S07D010BZ-HM40525935-41PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	6.6
10°-20°	135.6	18.1
20°-30°	182.4	24.4
30°-40°	150.0	20.0
40°-50°	92.1	12.3
50°-60°	63.8	8.5
60°-70°	43.4	5.8
70°-80°	24.2	3.2
80°-90°	7.7	1.0
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°	367.3	49.1
0°-40°	517.3	69.1
0°-60°	673.2	89.9
0°-90°	748.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	748.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	527	
5°	522	49
15°	484	136
25°	401	182
35°	238	150
45°	116	92
55°	70	64
65°	43	43
75°	23	24
85°	7	8
90°	0	



TEST NUMBER: P581526  
CATALOG NUMBER: HCC4S07D010BZ-HM40525935-41PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	527.1
2.5°	523.4
5°	521.8
7.5°	516.0
10°	504.8
12.5°	494.8
15°	484.2
17.5°	468.9
20°	449.3
22.5°	426.1
25°	401.1
27.5°	371.0
30°	333.4
32.5°	287.3
35°	238.2
37.5°	195.8
40°	161.4
42.5°	135.0
45°	116.4
47.5°	102.2
50°	90.5
52.5°	79.9
55°	69.9
57.5°	62.5
60°	56.1
62.5°	49.7
65°	43.4
67.5°	38.1
70°	32.8
72.5°	27.5
75°	22.8
77.5°	18.0
80°	14.3
82.5°	10.6
85°	6.8
87.5°	3.8
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)