

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: P592567

Luminaire Tested: **HCC4S07D010BZ-HM40525850-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592567  
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: HCC4S07D010BZ-HM40525850-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

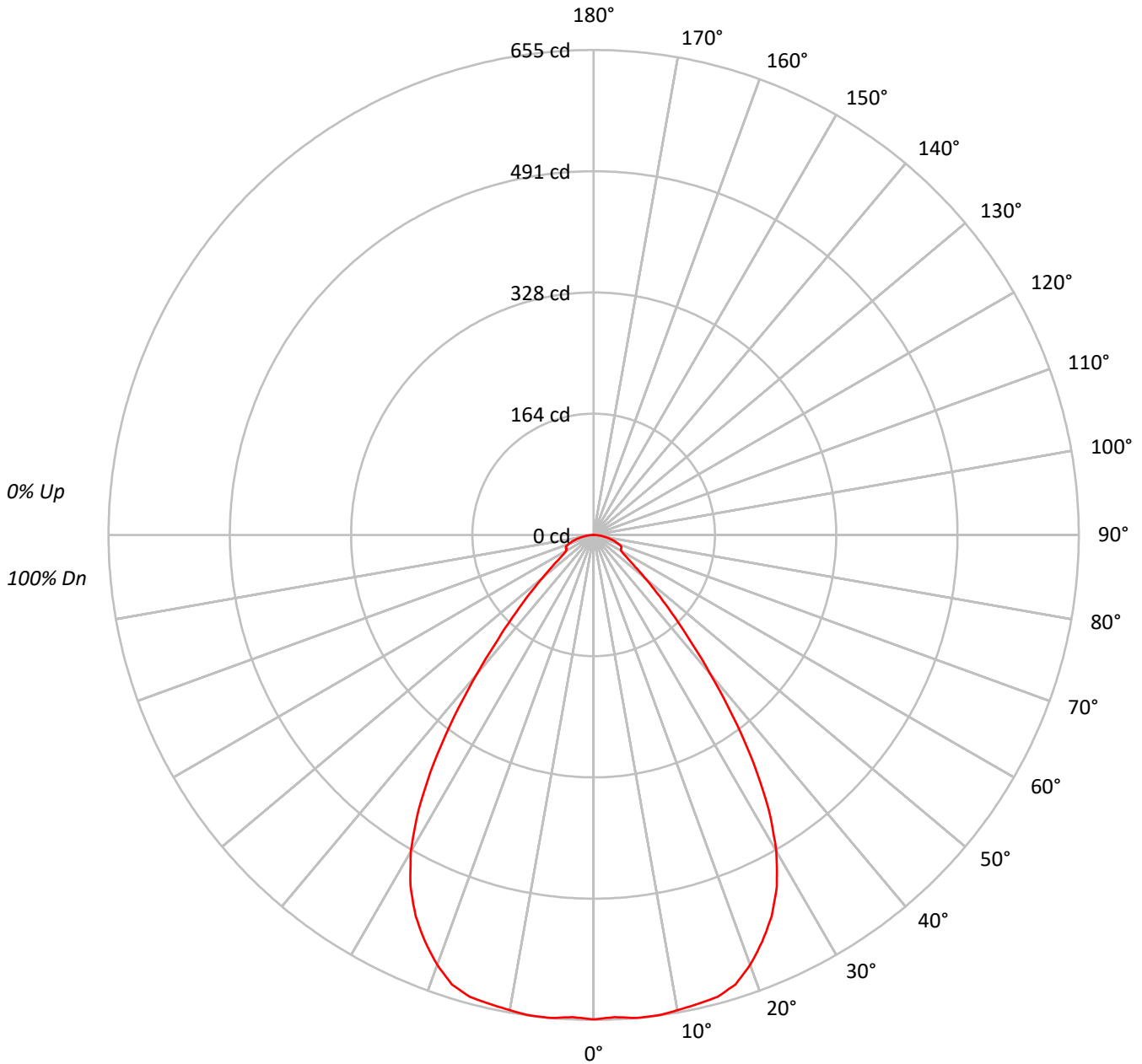
Lumens per Lamp: N/A  
Luminaire Lumens: 983.1 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P592567  
CATALOG NUMBER: HCC4S07D010BZ-HM40525850-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P592567  
 CATALOG NUMBER: HCC4S07D010BZ-HM40525850-41WDWB

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

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

	0°
0°	80705
5°	81088
10°	81637
15°	82467
20°	81093
25°	77357
30°	70274
35°	56707
40°	39336
45°	25834
50°	17289
55°	12301
60°	10534
65°	12083
70°	12983
75°	12486
80°	11223
85°	10331



TEST NUMBER: P592567  
 CATALOG NUMBER: HCC4S07D010BZ-HM40525850-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.4	6.3
10°-20°	181.4	18.5
20°-30°	259.2	26.4
30°-40°	231.5	23.6
40°-50°	118.8	12.1
50°-60°	54.0	5.5
60°-70°	40.3	4.1
70°-80°	27.4	2.8
80°-90°	8.1	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°	503.0	51.2
0°-40°	734.6	74.7
0°-60°	907.3	92.3
0°-90°	983.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	654	
5°	655	62
15°	646	181
25°	568	259
35°	377	232
45°	148	119
55°	57	54
65°	41	40
75°	26	27
85°	7	8
90°	0	



TEST NUMBER: P592567  
CATALOG NUMBER: HCC4S07D010BZ-HM40525850-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	654.3
2.5°	651.8
5°	654.9
7.5°	654.9
10°	651.8
12.5°	648.9
15°	645.8
17.5°	636.6
20°	617.8
22.5°	594.6
25°	568.4
27.5°	535.5
30°	493.4
32.5°	439.8
35°	376.6
37.5°	308.9
40°	244.3
42.5°	190.7
45°	148.1
47.5°	115.7
50°	90.1
52.5°	70.7
55°	57.2
57.5°	48.1
60°	42.7
62.5°	41.4
65°	41.4
67.5°	40.2
70°	36.0
72.5°	31.1
75°	26.2
77.5°	20.7
80°	15.8
82.5°	11.6
85°	7.3
87.5°	3.1
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)