

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: P581452

Luminaire Tested: **HCC4S07D010BZ-HM40525835-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581452
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-HM40525835-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

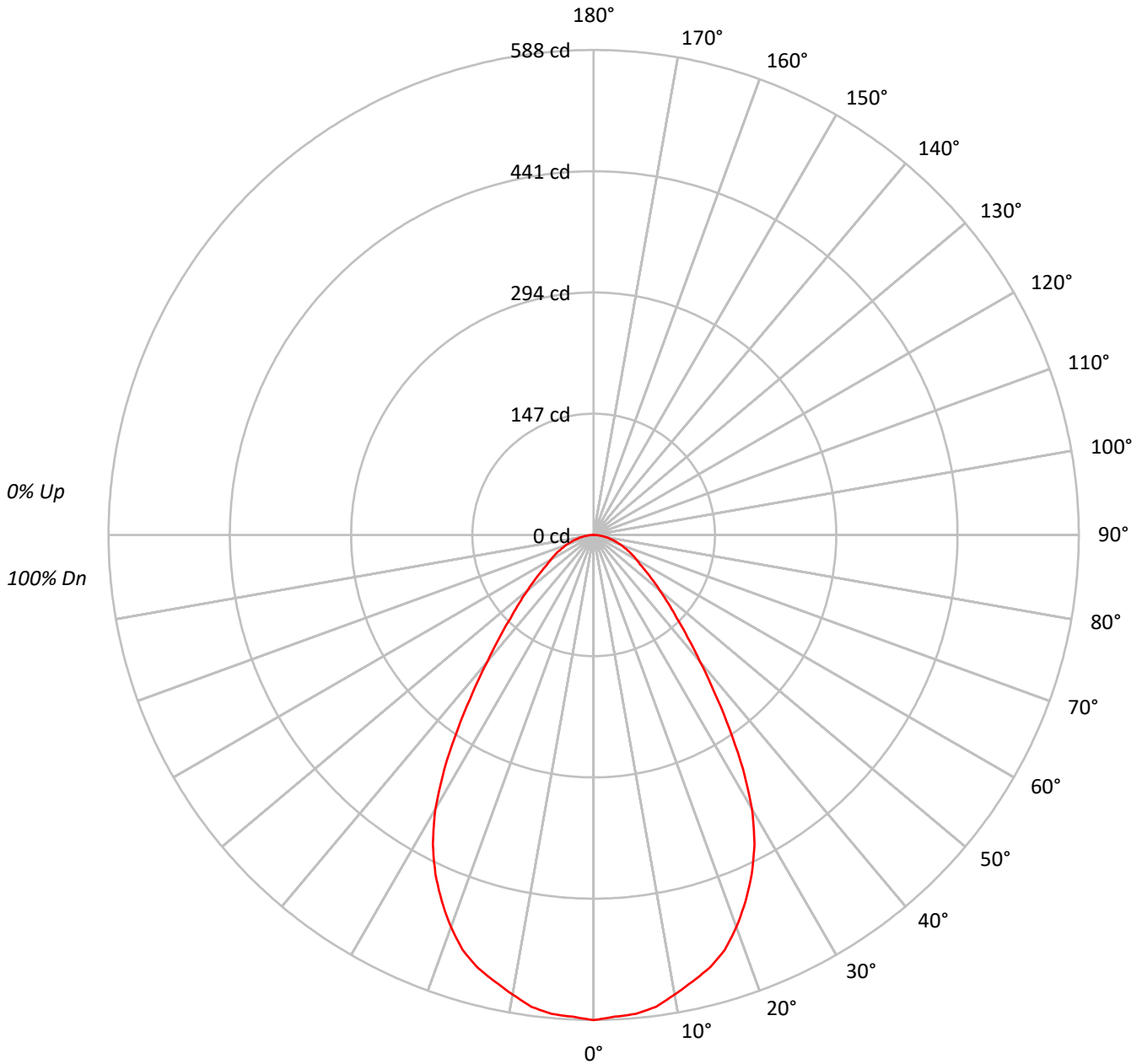
Lumens per Lamp: N/A
Luminaire Lumens: 855.9 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): 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: P581452
CATALOG NUMBER: HCC4S07D010BZ-HM40525835-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P581452

CATALOG NUMBER: HCC4S07D010BZ-HM40525835-41MDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44				44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72564
5°	72185
10°	70866
15°	69378
20°	66392
25°	61747
30°	54649
35°	43125
40°	32268
45°	24840
50°	20129
55°	16709
60°	14777
65°	13688
70°	12586
75°	11628
80°	10513
85°	8350



TEST NUMBER: P581452
 CATALOG NUMBER: HCC4S07D010BZ-HM40525835-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	6.4
10°-20°	152.3	17.8
20°-30°	206.8	24.2
30°-40°	179.2	20.9
40°-50°	112.5	13.1
50°-60°	70.8	8.3
60°-70°	46.5	5.4
70°-80°	25.6	3.0
80°-90°	7.0	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°	414.3	48.4
0°-40°	593.5	69.3
0°-60°	776.7	90.8
0°-90°	855.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	855.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	588	
5°	583	55
15°	543	152
25°	454	207
35°	286	179
45°	142	113
55°	78	71
65°	47	46
75°	24	26
85°	6	7
90°	0	



TEST NUMBER: P581452
CATALOG NUMBER: HCC4S07D010BZ-HM40525835-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	588.3
2.5°	584.7
5°	583.0
7.5°	577.1
10°	565.8
12.5°	554.5
15°	543.3
17.5°	527.8
20°	505.8
22.5°	480.9
25°	453.7
27.5°	422.2
30°	383.7
32.5°	336.8
35°	286.4
37.5°	240.2
40°	200.4
42.5°	169.0
45°	142.4
47.5°	122.2
50°	104.9
52.5°	90.1
55°	77.7
57.5°	67.0
60°	59.9
62.5°	53.4
65°	46.9
67.5°	40.3
70°	34.9
72.5°	29.0
75°	24.4
77.5°	19.0
80°	14.8
82.5°	10.1
85°	5.9
87.5°	2.4
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)