

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: P581503

Luminaire Tested: **HCC4S07D010MB-HM40525930-41MDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010MB-HM40525930-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 775.9 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

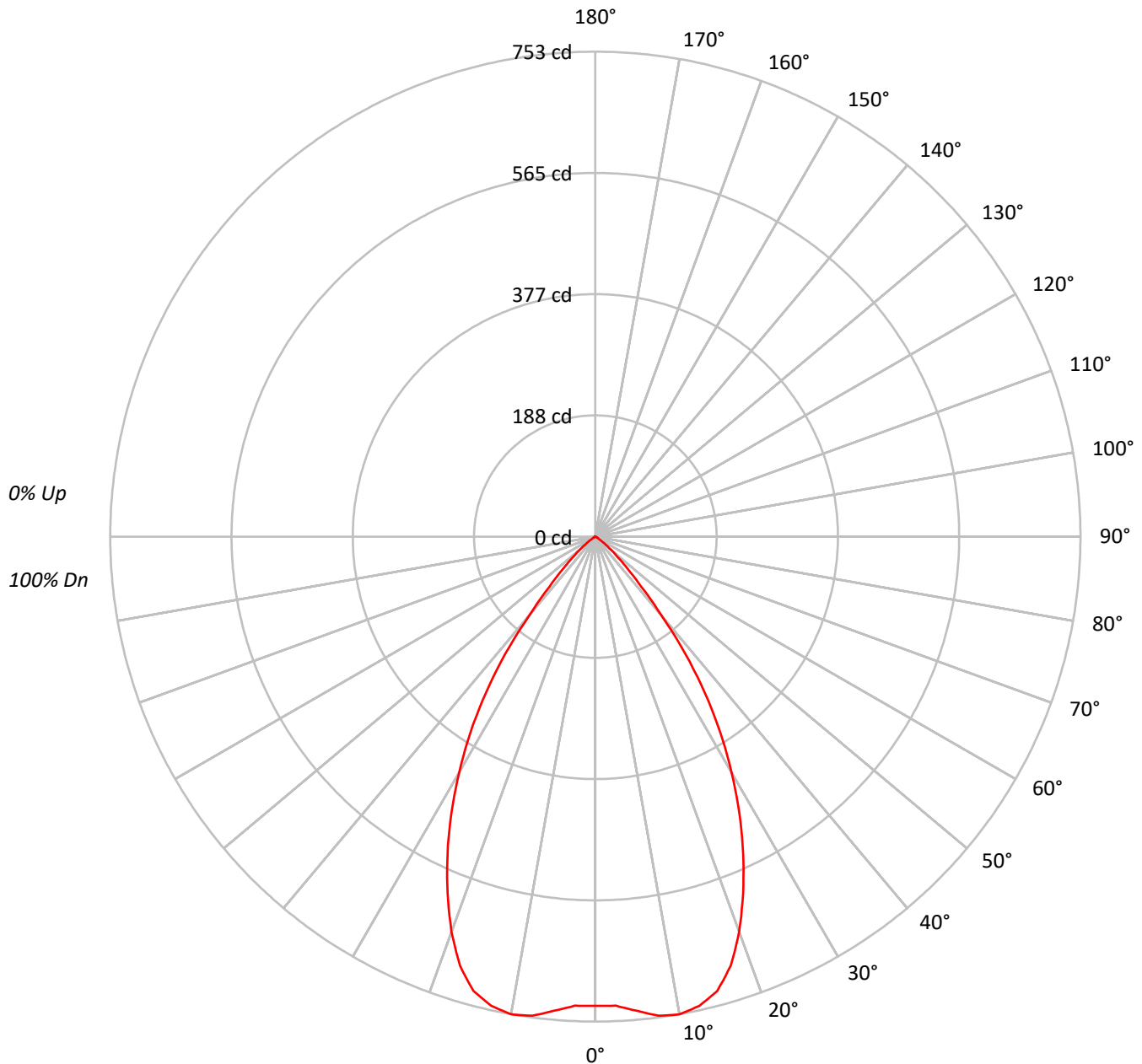
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581503

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41MDC

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P581503

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41MDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86		
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80		
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74		
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69		
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64		
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60		
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	64	60	57	56		
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52		
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	89882
5°	91525
10°	94337
15°	93295
20°	85688
25°	73914
30°	60232
35°	44601
40°	25585
45°	12368
50°	5891
55°	2064
60°	765
65°	438
70°	361
75°	238
80°	0
85°	0



TEST NUMBER: P581503

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	9.2
10°-20°	202.6	26.1
20°-30°	247.4	31.9
30°-40°	181.8	23.4
40°-50°	60.3	7.8
50°-60°	10.7	1.4
60°-70°	1.6	0.2
70°-80°	0.5	0.1
80°-90°	0.0	0.0
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°	521.0	67.1
0°-40°	702.9	90.6
0°-60°	773.8	99.7
0°-90°	775.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	775.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	729	
5°	739	71
15°	731	203
25°	543	247
35°	296	182
45°	71	60
55°	10	11
65°	2	2
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P581503

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	728.7
2.5°	729.1
5°	739.2
7.5°	750.3
10°	753.2
12.5°	746.2
15°	730.6
17.5°	698.5
20°	652.8
22.5°	599.4
25°	543.1
27.5°	484.2
30°	422.9
32.5°	361.5
35°	296.2
37.5°	229.8
40°	158.9
42.5°	105.2
45°	70.9
47.5°	47.2
50°	30.7
52.5°	18.1
55°	9.6
57.5°	4.0
60°	3.1
62.5°	2.0
65°	1.5
67.5°	1.0
70°	1.0
72.5°	0.5
75°	0.5
77.5°	0.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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)