

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: P581497

Luminaire Tested: **HCC4S07D010MW-HM40525930-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010MW-HM40525930-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 651.7 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

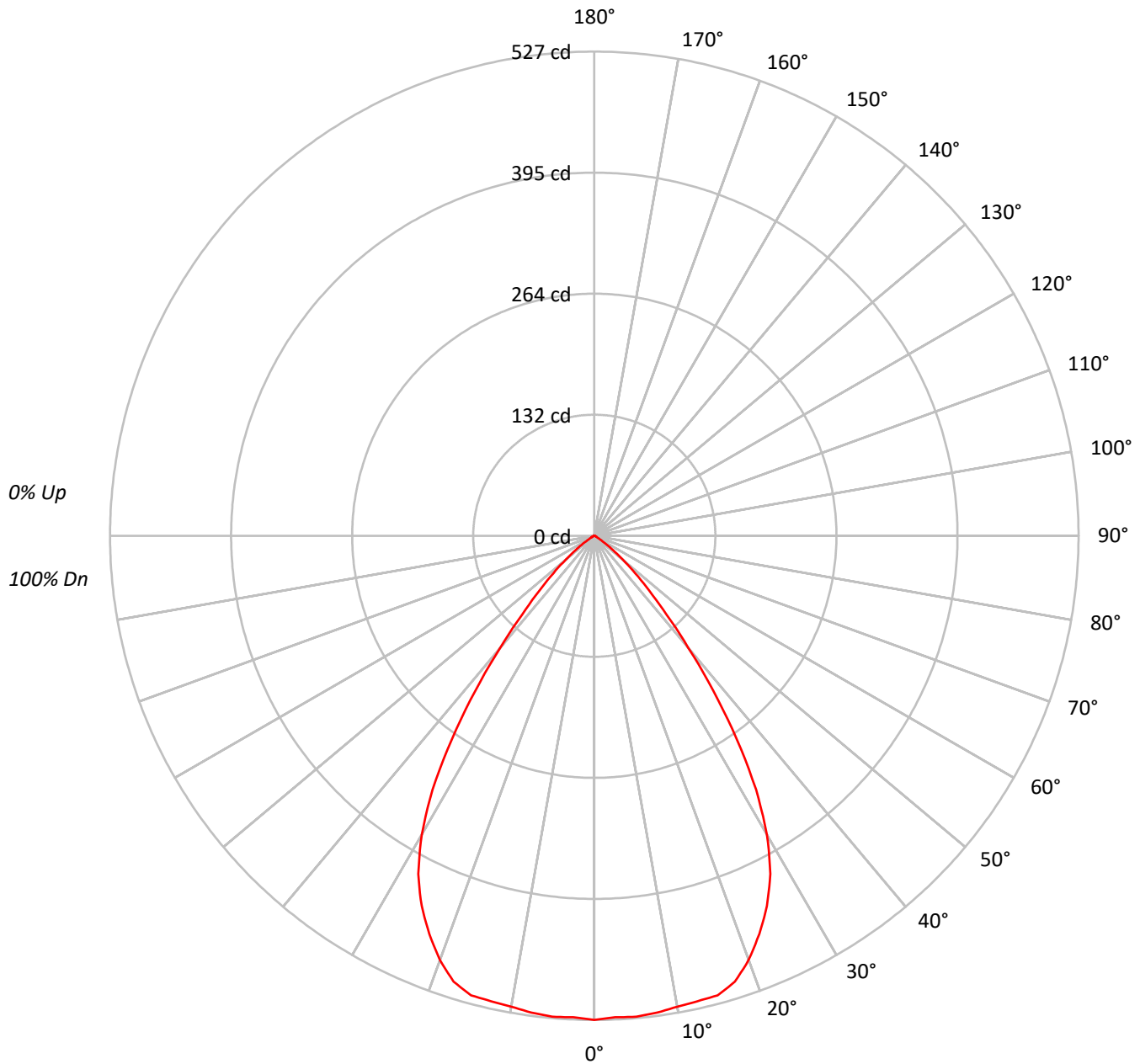
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581497

CATALOG NUMBER: HCC4S07D010MW-HM40525930-41WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P581497

CATALOG NUMBER: HCC4S07D010MW-HM40525930-41WDBB

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91
3	101	94	89	84	99	93	88	84	90	86	82		87	84	81		85
4	95	87	81	77	93	86	80	76	84	79	75		82	78	74		80
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	65	59	55	74	65	59	54	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	50		59	54	50		58
10	68	58	51	47	67	57	51	47	56	51	47		55	50	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65003
5°	65066
10°	65179
15°	66134
20°	64489
25°	60509
30°	53524
35°	40701
40°	25634
45°	14722
50°	7810
55°	3226
60°	863
65°	730
70°	541
75°	477
80°	355
85°	708



TEST NUMBER: P581497

CATALOG NUMBER: HCC4S07D010MW-HM40525930-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	7.7
10°-20°	145.0	22.3
20°-30°	202.4	31.1
30°-40°	166.6	25.6
40°-50°	68.6	10.5
50°-60°	15.4	2.4
60°-70°	2.5	0.4
70°-80°	0.9	0.1
80°-90°	0.3	0.1
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°	397.4	61.0
0°-40°	563.9	86.5
0°-60°	648.0	99.4
0°-90°	651.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	651.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	527	
5°	526	50
15°	518	145
25°	445	202
35°	270	167
45°	84	69
55°	15	15
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P581497

CATALOG NUMBER: HCC4S07D010MW-HM40525930-41WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	527.0
2.5°	524.5
5°	525.5
7.5°	523.5
10°	520.4
12.5°	518.9
15°	517.9
17.5°	508.9
20°	491.3
22.5°	469.2
25°	444.6
27.5°	414.9
30°	375.8
32.5°	327.5
35°	270.3
37.5°	212.5
40°	159.2
42.5°	116.1
45°	84.4
47.5°	60.3
50°	40.7
52.5°	25.6
55°	15.0
57.5°	7.5
60°	3.5
62.5°	3.0
65°	2.5
67.5°	2.0
70°	1.5
72.5°	1.0
75°	1.0
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
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)