

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: P581506

Luminaire Tested: **HCC4S07D010BZ-HM40525930-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581506
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-HM40525930-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 725.6 lumens
Efficiency: N/A
Efficacy: 90.7 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

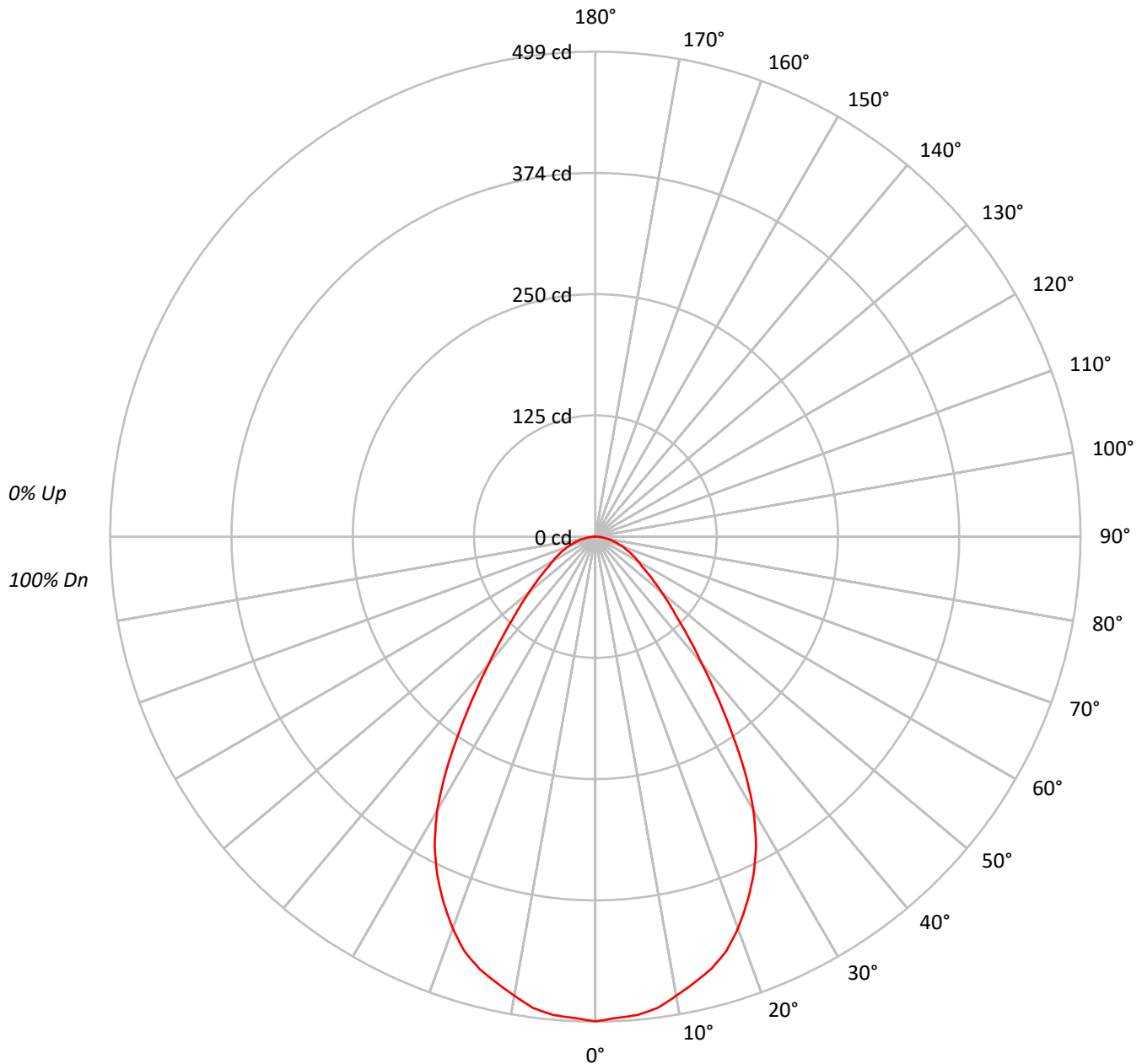
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581506

CATALOG NUMBER: HCC4S07D010BZ-HM40525930-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P581506

CATALOG NUMBER: HCC4S07D010BZ-HM40525930-41MDW

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	97		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	97	88	82	76		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	73	68		88	79	73	67		77	71	67		75	70	66		73	68	65
5	84	74	66	61		82	73	66	61		71	65	60		69	64	59		67	63	59
6	79	68	60	55		77	67	60	55		65	59	54		64	58	54		62	57	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	49		58	53	49
8	70	58	51	46		68	58	51	46		56	50	46		55	50	45		54	49	45
9	66	54	47	42		65	54	47	42		53	46	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		48	43	39		48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61525
5°	61190
10°	60082
15°	58804
20°	56298
25°	52343
30°	46346
35°	36560
40°	27357
45°	21037
50°	17078
55°	14172
60°	12532
65°	11587
70°	10711
75°	9817
80°	8879
85°	7076



TEST NUMBER: P581506

CATALOG NUMBER: HCC4S07D010BZ-HM40525930-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	6.4
10°-20°	129.2	17.8
20°-30°	175.4	24.2
30°-40°	151.9	20.9
40°-50°	95.4	13.1
50°-60°	60.0	8.3
60°-70°	39.4	5.4
70°-80°	21.7	3.0
80°-90°	5.9	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°	351.3	48.4
0°-40°	503.2	69.3
0°-60°	658.5	90.8
0°-90°	725.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	499	
5°	494	47
15°	460	129
25°	385	175
35°	243	152
45°	121	95
55°	66	60
65°	40	39
75°	21	22
85°	5	6
90°	0	



TEST NUMBER: P581506

CATALOG NUMBER: HCC4S07D010BZ-HM40525930-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	498.8
2.5°	495.7
5°	494.2
7.5°	489.2
10°	479.7
12.5°	470.1
15°	460.5
17.5°	447.5
20°	428.9
22.5°	407.7
25°	384.6
27.5°	358.0
30°	325.4
32.5°	285.6
35°	242.8
37.5°	203.6
40°	169.9
42.5°	143.3
45°	120.6
47.5°	103.6
50°	89.0
52.5°	76.5
55°	65.9
57.5°	56.8
60°	50.8
62.5°	45.3
65°	39.7
67.5°	34.1
70°	29.7
72.5°	24.6
75°	20.6
77.5°	16.0
80°	12.5
82.5°	8.5
85°	5.0
87.5°	2.0
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)