

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: P592613

Luminaire Tested: **HCC4S10D010MW-HM40525950-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S10D010MW-HM40525950-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

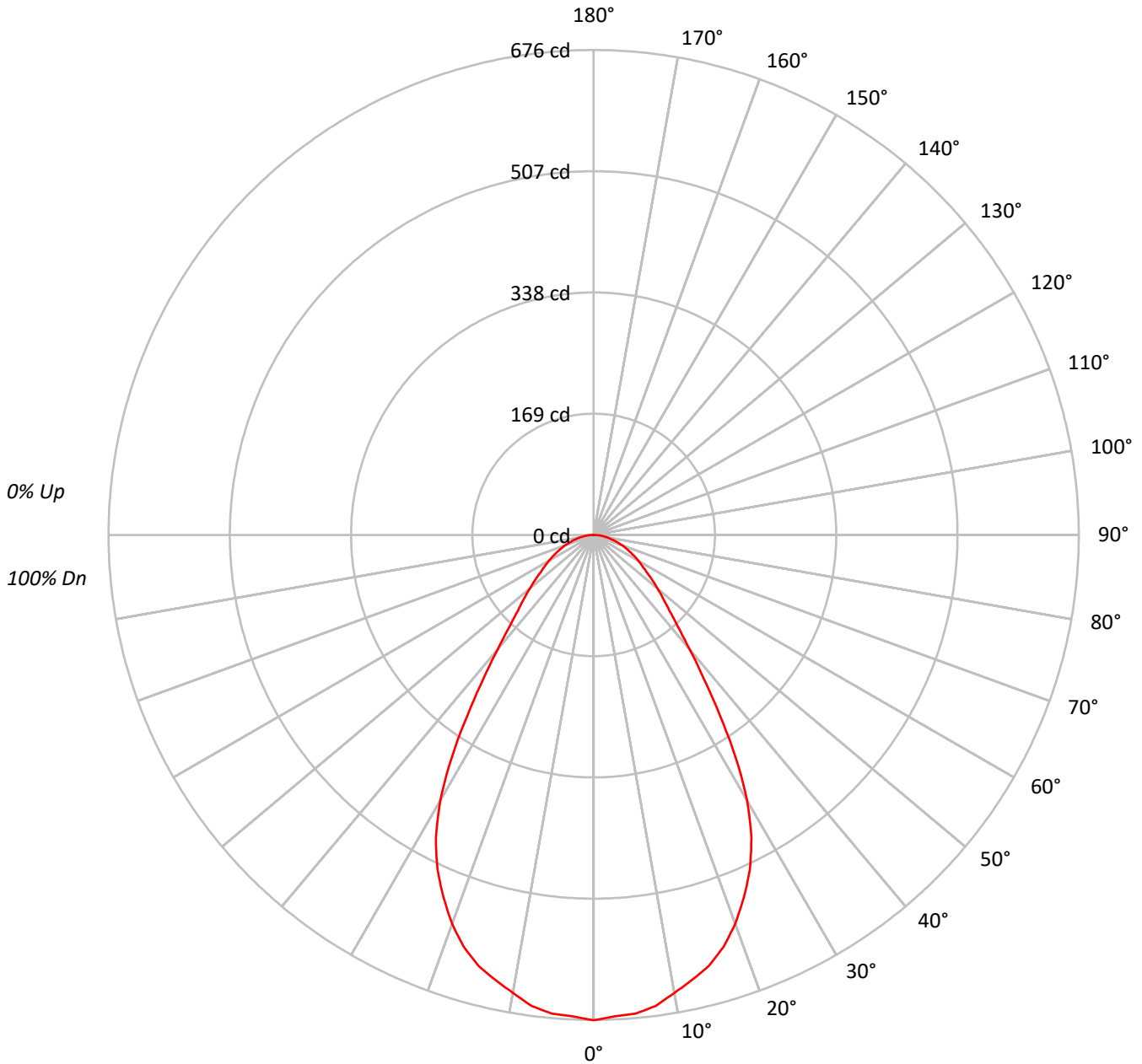
Lumens per Lamp: N/A
Luminaire Lumens: 960.7 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P592613
CATALOG NUMBER: HCC4S10D010MW-HM40525950-41PSMDW

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P592613

CATALOG NUMBER: HCC4S10D010MW-HM40525950-41PSMDW

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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83443
5°	82920
10°	81161
15°	79376
20°	75699
25°	70076
30°	60945
35°	46031
40°	33363
45°	26061
50°	22298
55°	19290
60°	17762
65°	16227
70°	15183
75°	13916
80°	12999
85°	12596



TEST NUMBER: P592613
 CATALOG NUMBER: HCC4S10D010MW-HM40525950-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	6.6
10°-20°	174.1	18.1
20°-30°	234.1	24.4
30°-40°	192.5	20.0
40°-50°	118.2	12.3
50°-60°	81.8	8.5
60°-70°	55.7	5.8
70°-80°	31.1	3.2
80°-90°	9.9	1.0
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°	471.5	49.1
0°-40°	664.0	69.1
0°-60°	864.0	89.9
0°-90°	960.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	676	
5°	670	63
15°	622	174
25°	515	234
35°	306	193
45°	149	118
55°	90	82
65°	56	56
75°	29	31
85°	9	10
90°	0	



TEST NUMBER: P592613
CATALOG NUMBER: HCC4S10D010MW-HM40525950-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	676.5
2.5°	671.8
5°	669.7
7.5°	662.3
10°	648.0
12.5°	635.1
15°	621.6
17.5°	601.9
20°	576.7
22.5°	546.8
25°	514.9
27.5°	476.1
30°	427.9
32.5°	368.8
35°	305.7
37.5°	251.4
40°	207.2
42.5°	173.2
45°	149.4
47.5°	131.1
50°	116.2
52.5°	102.5
55°	89.7
57.5°	80.1
60°	72.0
62.5°	63.8
65°	55.6
67.5°	48.9
70°	42.1
72.5°	35.3
75°	29.2
77.5°	23.1
80°	18.3
82.5°	13.5
85°	8.9
87.5°	4.8
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)