

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: P592610

Luminaire Tested: **HCC4W10D010MB-HM40525850-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W10D010MB-HM40525850-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

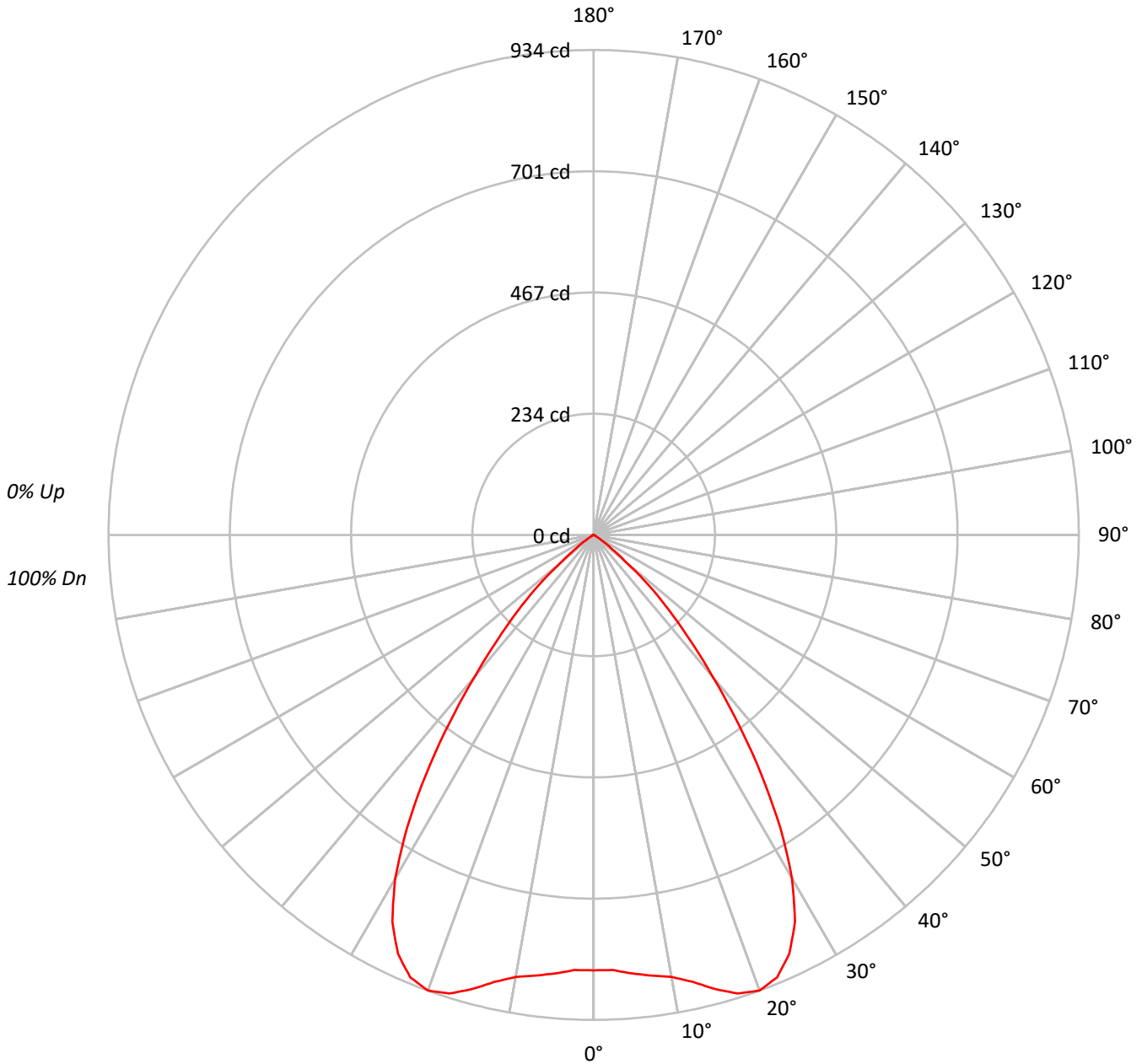
Lumens per Lamp: N/A
Luminaire Lumens: 1280.4 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592610
CATALOG NUMBER: HCC4W10D010MB-HM40525850-41WDC

Luminous Intensity Polar Plot





TEST NUMBER: P592610

CATALOG NUMBER: HCC4W10D010MB-HM40525850-41WDC

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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60	60	60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	44	44	44	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103438
5°	104959
10°	108240
15°	115655
20°	122559
25°	121221
30°	108786
35°	84670
40°	57370
45°	35812
50°	15505
55°	5183
60°	1283
65°	905
70°	541
75°	381
80°	568
85°	0



TEST NUMBER: P592610
 CATALOG NUMBER: HCC4W10D010MB-HM40525850-41WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	6.4
10°-20°	257.1	20.1
20°-30°	402.9	31.5
30°-40°	347.7	27.2
40°-50°	159.9	12.5
50°-60°	27.1	2.1
60°-70°	3.1	0.2
70°-80°	1.1	0.1
80°-90°	0.1	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°	741.4	57.9
0°-40°	1089.1	85.1
0°-60°	1276.1	99.7
0°-90°	1280.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	839	
5°	848	81
15°	906	257
25°	891	403
35°	562	348
45°	205	160
55°	24	27
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P592610
CATALOG NUMBER: HCC4W10D010MB-HM40525850-41WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	838.6
2.5°	838.6
5°	847.7
7.5°	856.0
10°	864.2
12.5°	881.6
15°	905.7
17.5°	926.1
20°	933.7
22.5°	922.3
25°	890.7
27.5°	839.4
30°	763.8
32.5°	668.8
35°	562.3
37.5°	455.2
40°	356.3
42.5°	272.4
45°	205.3
47.5°	144.2
50°	80.8
52.5°	44.5
55°	24.1
57.5°	12.1
60°	5.2
62.5°	3.8
65°	3.1
67.5°	2.3
70°	1.5
72.5°	1.5
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
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)