

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: P580580

Luminaire Tested: **HCC4W40D010BZ-HM43040835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W40D010BZ-HM43040835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

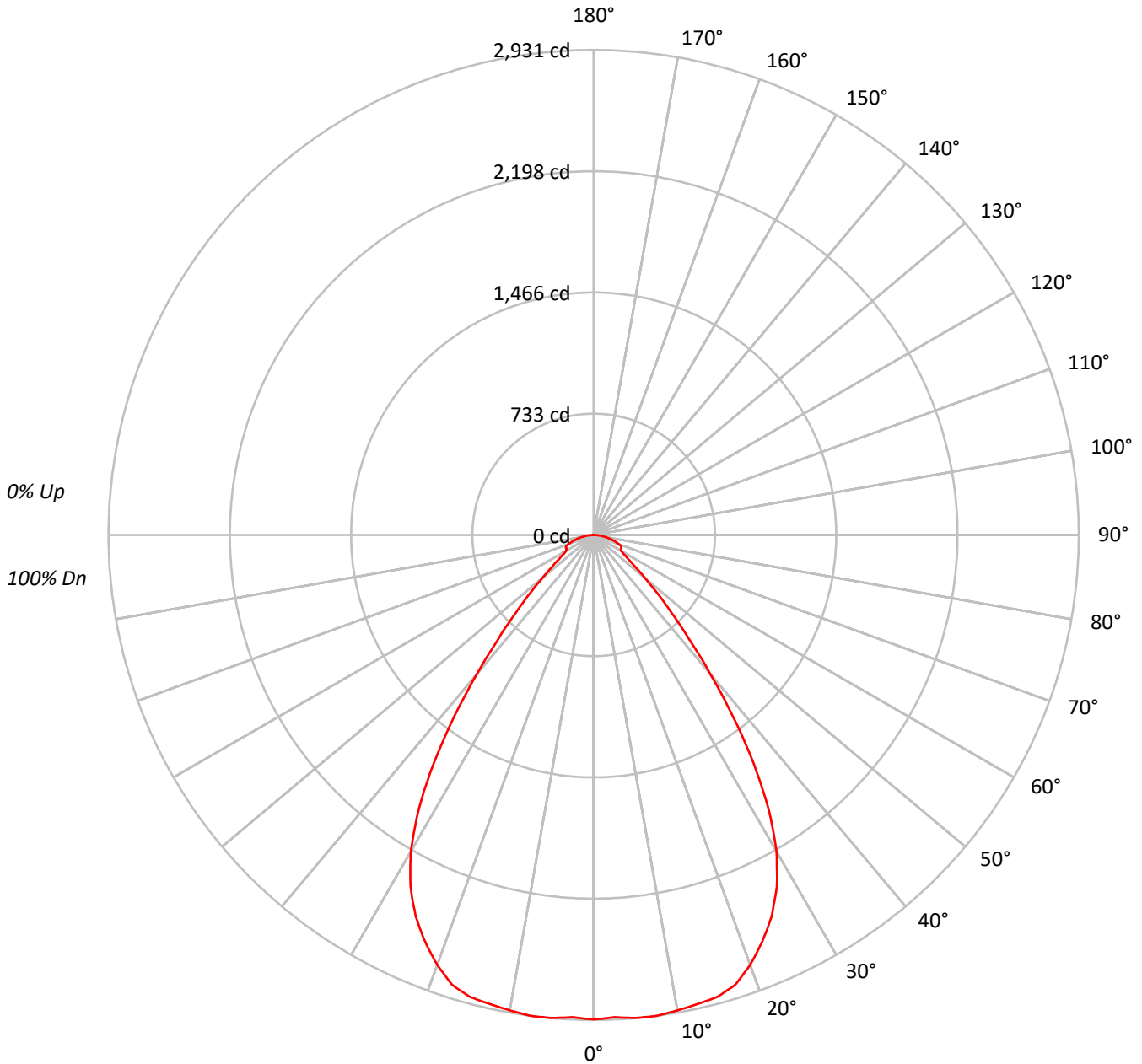
Lumens per Lamp: N/A
Luminaire Lumens: 4399.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P580580
CATALOG NUMBER: HCC4W40D010BZ-HM43040835-41WDWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580580

CATALOG NUMBER: HCC4W40D010BZ-HM43040835-41WDWB

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	361205
5°	362919
10°	365412
15°	369069
20°	362912
25°	346217
30°	314565
35°	253738
40°	176055
45°	115565
50°	77448
55°	55116
60°	47093
65°	54111
70°	58027
75°	55902
80°	50291
85°	46278



TEST NUMBER: P580580
 CATALOG NUMBER: HCC4W40D010BZ-HM43040835-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	6.3
10°-20°	811.9	18.5
20°-30°	1160.0	26.4
30°-40°	1036.3	23.6
40°-50°	531.5	12.1
50°-60°	241.6	5.5
60°-70°	180.2	4.1
70°-80°	122.6	2.8
80°-90°	36.3	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°	2251.3	51.2
0°-40°	3287.6	74.7
0°-60°	4060.7	92.3
0°-90°	4399.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4399.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2928	
5°	2931	279
15°	2890	812
25°	2544	1160
35°	1685	1036
45°	662	531
55°	256	242
65°	185	180
75°	117	123
85°	33	36
90°	0	



TEST NUMBER: P580580

CATALOG NUMBER: HCC4W40D010BZ-HM43040835-41WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	2928.4
2.5°	2917.5
5°	2931.1
7.5°	2931.1
10°	2917.5
12.5°	2903.8
15°	2890.2
17.5°	2849.4
20°	2764.8
22.5°	2661.1
25°	2543.9
27.5°	2396.7
30°	2208.6
32.5°	1968.6
35°	1685.1
37.5°	1382.4
40°	1093.4
42.5°	853.4
45°	662.5
47.5°	518.0
50°	403.6
52.5°	316.2
55°	256.3
57.5°	215.5
60°	190.9
62.5°	185.4
65°	185.4
67.5°	179.9
70°	160.9
72.5°	139.0
75°	117.3
77.5°	92.7
80°	70.8
82.5°	51.8
85°	32.7
87.5°	13.7
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)