

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: P580553

Luminaire Tested: **HCC4W40D010BZ-HM43040827-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W40D010BZ-HM43040827-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

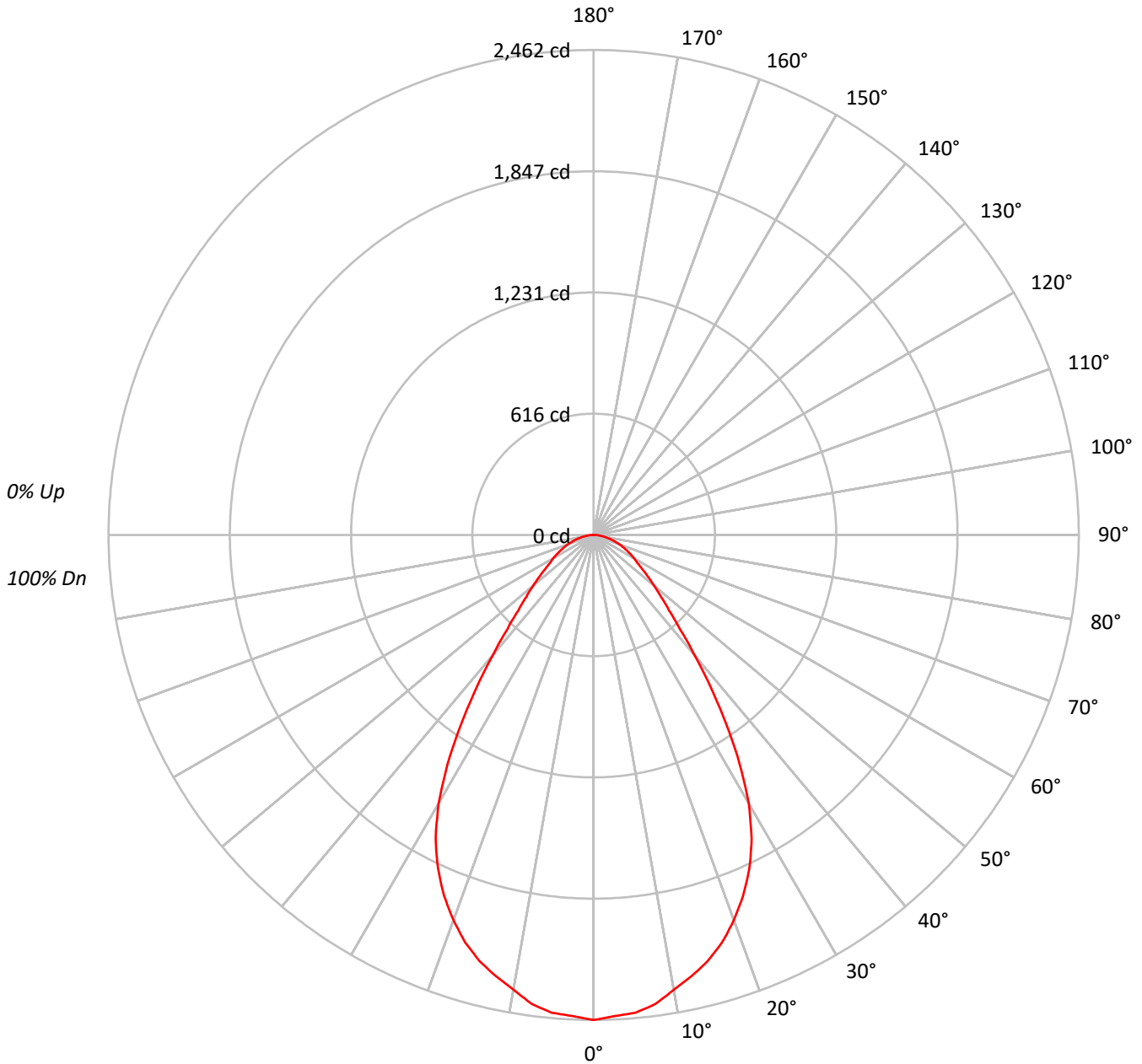
Lumens per Lamp: N/A
Luminaire Lumens: 3457.2 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580553
CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P580553
 CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41NDW

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79		
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58		
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52		
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48		
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	303739
5°	301469
10°	293620
15°	285900
20°	273103
25°	254433
30°	224038
35°	176702
40°	128266
45°	94231
50°	76661
55°	64299
60°	58268
65°	53527
70°	49840
75°	45513
80°	41056
85°	35522



TEST NUMBER: P580553
 CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	6.6
10°-20°	628.0	18.2
20°-30°	851.3	24.6
30°-40°	730.5	21.1
40°-50°	431.3	12.5
50°-60°	273.3	7.9
60°-70°	183.7	5.3
70°-80°	101.4	2.9
80°-90°	28.4	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°	1708.8	49.4
0°-40°	2439.3	70.6
0°-60°	3143.9	90.9
0°-90°	3457.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3457.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2462	
5°	2435	230
15°	2239	628
25°	1870	851
35°	1174	730
45°	540	431
55°	299	273
65°	183	184
75°	96	101
85°	25	28
90°	0	



TEST NUMBER: P580553
CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2462.5
2.5°	2444.9
5°	2434.8
7.5°	2402.2
10°	2344.3
12.5°	2294.1
15°	2238.9
17.5°	2168.5
20°	2080.6
22.5°	1982.6
25°	1869.5
27.5°	1736.3
30°	1573.0
32.5°	1379.5
35°	1173.5
37.5°	974.9
40°	796.6
42.5°	648.3
45°	540.2
47.5°	462.3
50°	399.5
52.5°	346.7
55°	299.0
57.5°	261.3
60°	236.2
62.5°	211.1
65°	183.4
67.5°	160.9
70°	138.2
72.5°	115.6
75°	95.5
77.5°	75.3
80°	57.8
82.5°	40.2
85°	25.1
87.5°	10.1
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)