

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: P580677

Luminaire Tested: **HCC4W40D010BZ-HM43040940-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580677
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: HCC4W40D010BZ-HM43040940-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

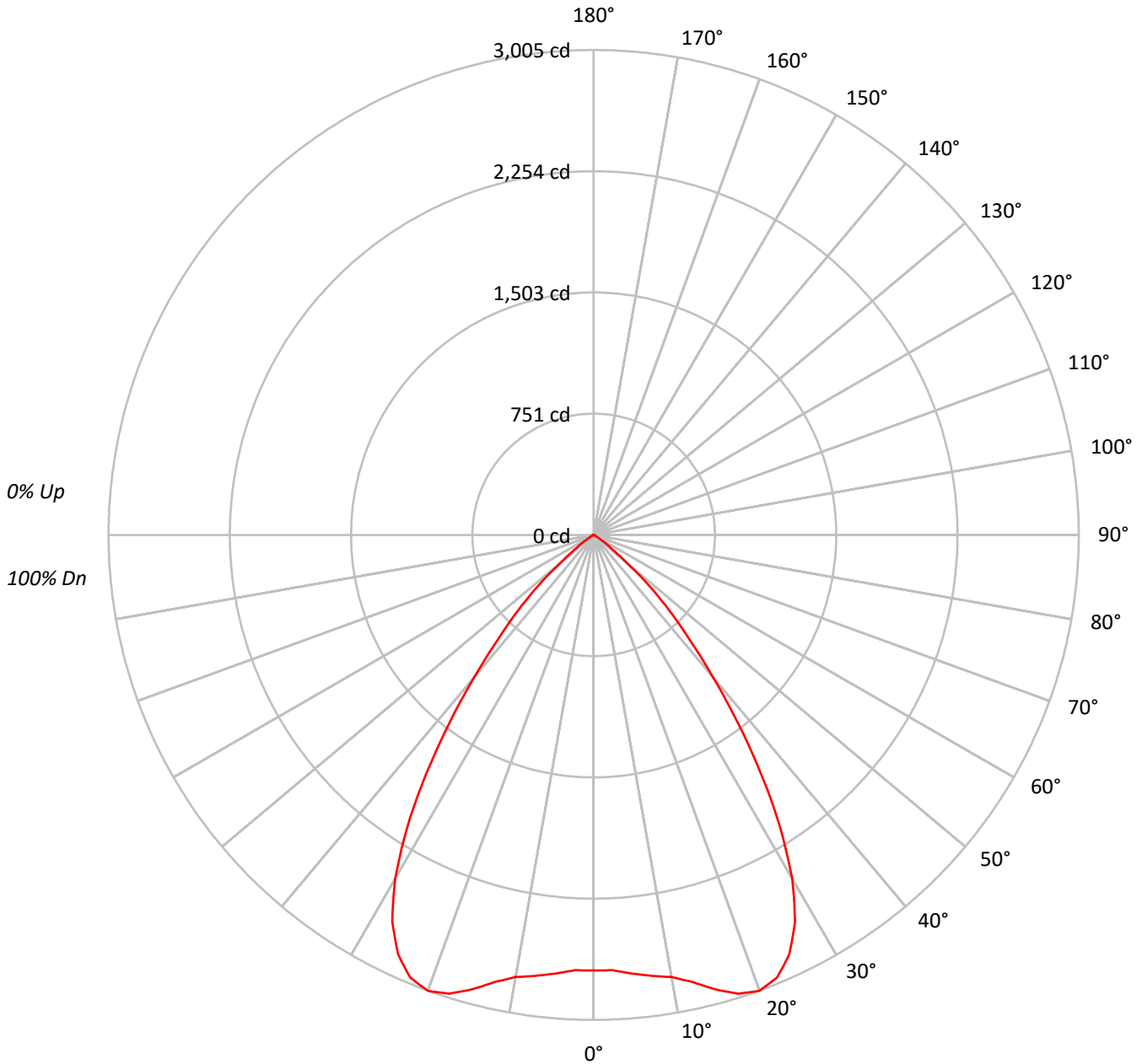
Lumens per Lamp: N/A
Luminaire Lumens: 4121.6 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P580677
CATALOG NUMBER: HCC4W40D010BZ-HM43040940-41WDC

Luminous Intensity Polar Plot



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



TEST NUMBER: P580677

CATALOG NUMBER: HCC4W40D010BZ-HM43040940-41WDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20								
RC	80									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	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	98	97	97	95	94	92	92	92	92																
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92	92	92	92	92	92	92	92																
	2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	88	88	86	86	86	86	86	86	85																
	3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	83	83	80	85	82	79	77	77	77																
	4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	77	77	73	79	75	72	71	71	71																
	5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	71	71	67	74	70	66	65	65	65																
	6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60	66	66	62	69	65	61	60	60	60																
	7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	57	57	57	64	60	56	55	55	55																
	8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	56	56	52	60	56	52	51	51	51																
	9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	52	52	48	56	52	48	47	47	47																
	10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	44	44	49	49	45	53	48	45	44	44	44																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	332959
5°	337834
10°	348429
15°	372300
20°	394494
25°	390190
30°	350200
35°	272560
40°	184653
45°	115268
50°	49892
55°	16731
60°	4194
65°	2860
70°	1731
75°	1191
80°	1776
85°	0



TEST NUMBER: P580677
 CATALOG NUMBER: HCC4W40D010BZ-HM43040940-41WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	6.4
10°-20°	827.6	20.1
20°-30°	1296.8	31.5
30°-40°	1119.2	27.2
40°-50°	514.7	12.5
50°-60°	87.4	2.1
60°-70°	9.9	0.2
70°-80°	3.5	0.1
80°-90°	0.3	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°	2386.5	57.9
0°-40°	3505.7	85.1
0°-60°	4107.8	99.7
0°-90°	4121.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2699	
5°	2728	262
15°	2916	828
25°	2867	1297
35°	1810	1119
45°	661	515
55°	78	87
65°	10	10
75°	2	4
85°	0	0
90°	0	



TEST NUMBER: P580677
CATALOG NUMBER: HCC4W40D010BZ-HM43040940-41WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2699.4
2.5°	2699.4
5°	2728.5
7.5°	2755.2
10°	2781.9
12.5°	2837.8
15°	2915.5
17.5°	2981.2
20°	3005.4
22.5°	2969.0
25°	2867.0
27.5°	2701.7
30°	2458.8
32.5°	2152.7
35°	1810.1
37.5°	1465.0
40°	1146.8
42.5°	877.1
45°	660.8
47.5°	464.1
50°	260.0
52.5°	143.4
55°	77.8
57.5°	38.9
60°	17.0
62.5°	12.1
65°	9.8
67.5°	7.3
70°	4.8
72.5°	4.8
75°	2.5
77.5°	2.5
80°	2.5
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)