

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: P584510

Luminaire Tested: **HCC8W40D010BZ-HM82555827-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W40D010BZ-HM82555827-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

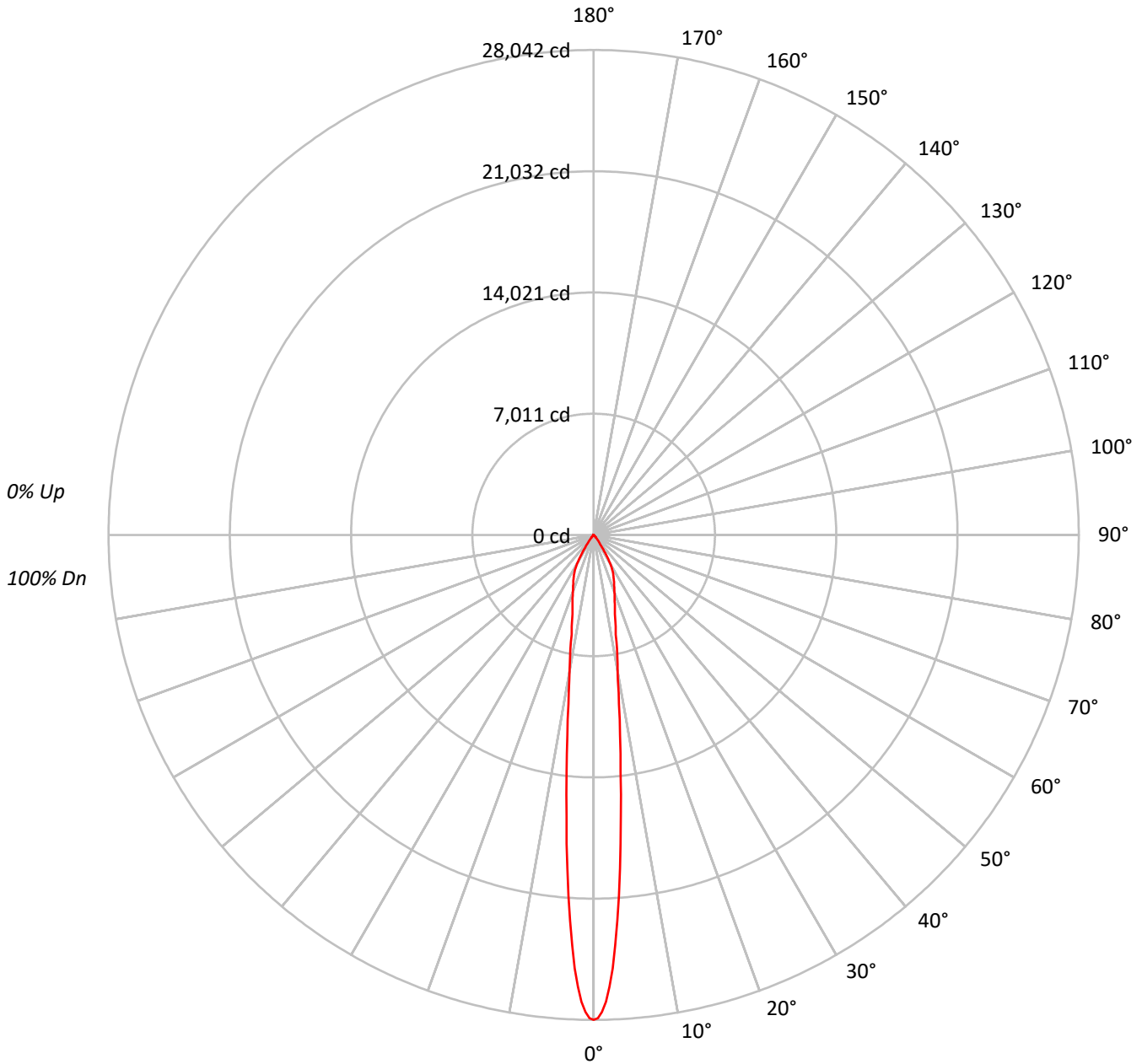
Lumens per Lamp: N/A
Luminaire Lumens: 4594.1 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584510
CATALOG NUMBER: HCC8W40D010BZ-HM82555827-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P584510
 CATALOG NUMBER: HCC8W40D010BZ-HM82555827-81NDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68																			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	864697
5°	554639
10°	250549
15°	151177
20°	115201
25°	93032
30°	68173
35°	24683
40°	9210
45°	4182
50°	1334
55°	333
60°	191
65°	226
70°	0
75°	0
80°	550
85°	1097



TEST NUMBER: P584510
 CATALOG NUMBER: HCC8W40D010BZ-HM82555827-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1366.6	29.7
10°-20°	1388.1	30.2
20°-30°	1242.6	27.0
30°-40°	500.5	10.9
40°-50°	82.1	1.8
50°-60°	7.5	0.2
60°-70°	2.7	0.1
70°-80°	2.1	0.0
80°-90°	3.0	0.1
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°	3997.2	87.0
0°-40°	4497.7	97.9
0°-60°	4587.3	99.9
0°-90°	4595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4594.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	28042	
5°	17918	###
15°	4736	1388
25°	2734	1243
35°	656	501
45°	96	82
55°	6	7
65°	3	3
75°	0	2
85°	3	3
90°	0	



TEST NUMBER: P584510

CATALOG NUMBER: HCC8W40D010BZ-HM82555827-81NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	28041.5
0.5°	27955.0
1°	27593.1
1.5°	27011.6
2°	26130.0
2.5°	25087.7
3°	23782.4
3.5°	22350.3
4°	20933.8
4.5°	19347.0
5°	17918.1
5.5°	16362.3
6°	15100.3
6.5°	13785.7
7°	12752.6
7.5°	11660.8
8°	10782.4
8.5°	9900.8
9°	9238.9
9.5°	8509.0
10°	8001.7
12.5°	5901.6
15°	4735.5
17.5°	4045.8
20°	3510.6
22.5°	3083.8
25°	2734.3
27.5°	2384.8
30°	1914.6
32.5°	1231.1
35°	655.7
37.5°	361.9
40°	228.8
42.5°	151.6
45°	95.9
47.5°	58.8
50°	27.8
52.5°	9.3
55°	6.2
57.5°	3.1
60°	3.1
62.5°	3.1
65°	3.1



TEST NUMBER: P584510
CATALOG NUMBER: HCC8W40D010BZ-HM82555827-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.1
80°	3.1
82.5°	3.1
85°	3.1
87.5°	3.1
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



67.5°		3.1
70°		0.0

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

Scaled Data Report



(END OF REPORT)