

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: P593795

Luminaire Tested: **HCC8W50D010BZ-HM82555850-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010BZ-HM82555850-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

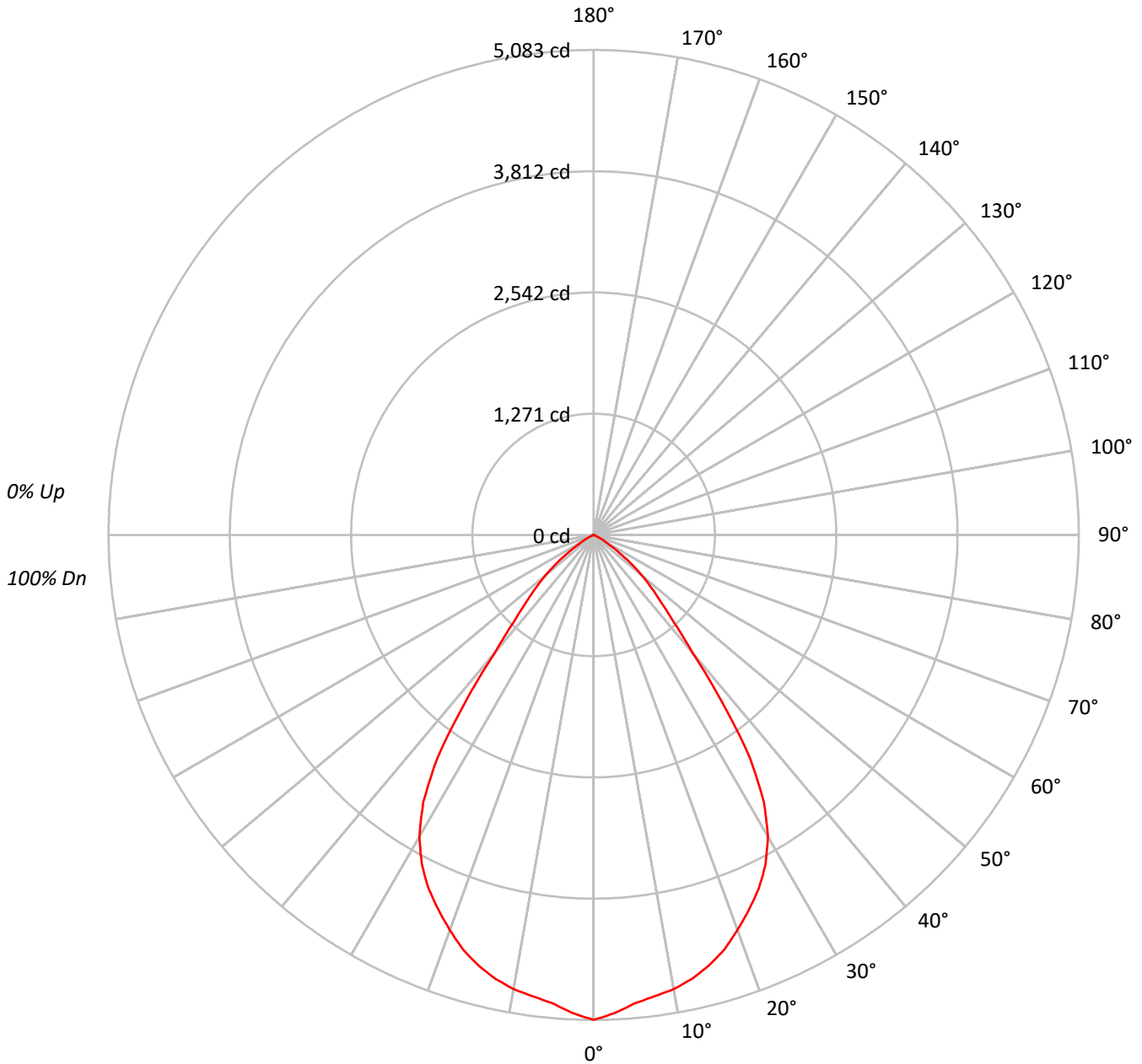
Lumens per Lamp: N/A
Luminaire Lumens: 6533.3 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P593795
CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81WDC

Luminous Intensity Polar Plot





TEST NUMBER: P593795
 CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81WDC

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																											
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																											
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84																											
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77																											
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70																											
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																											
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																											
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54																											
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																											
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																											
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156747
5°	152529
10°	151372
15°	149117
20°	144597
25°	139206
30°	130036
35°	107610
40°	64970
45°	43762
50°	31533
55°	17983
60°	7919
65°	2838
70°	1055
75°	465
80°	0
85°	0



TEST NUMBER: P593795
 CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.2	7.2
10°-20°	1312.7	20.1
20°-30°	1872.6	28.7
30°-40°	1705.2	26.1
40°-50°	804.4	12.3
50°-60°	316.4	4.8
60°-70°	50.4	0.8
70°-80°	3.6	0.1
80°-90°	0.0	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°	3653.4	55.9
0°-40°	5358.6	82.0
0°-60°	6479.4	99.2
0°-90°	6533.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6533.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5083	
5°	4928	468
15°	4671	1313
25°	4091	1873
35°	2859	1705
45°	1004	804
55°	334	316
65°	39	50
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P593795
CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81WDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	5083.2
2.5°	5017.1
5°	4927.6
7.5°	4877.1
10°	4834.3
12.5°	4764.3
15°	4671.0
17.5°	4554.3
20°	4406.4
22.5°	4250.8
25°	4091.4
27.5°	3897.0
30°	3652.0
32.5°	3321.4
35°	2858.6
37.5°	2209.1
40°	1614.0
42.5°	1240.7
45°	1003.5
47.5°	824.5
50°	657.3
52.5°	493.9
55°	334.5
57.5°	210.1
60°	128.4
62.5°	77.7
65°	38.9
67.5°	19.4
70°	11.7
72.5°	3.9
75°	3.9
77.5°	0.0
80°	0.0
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)