

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: P593814

Luminaire Tested: **HCC8W50D010SL-HM82555950-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010SL-HM82555950-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

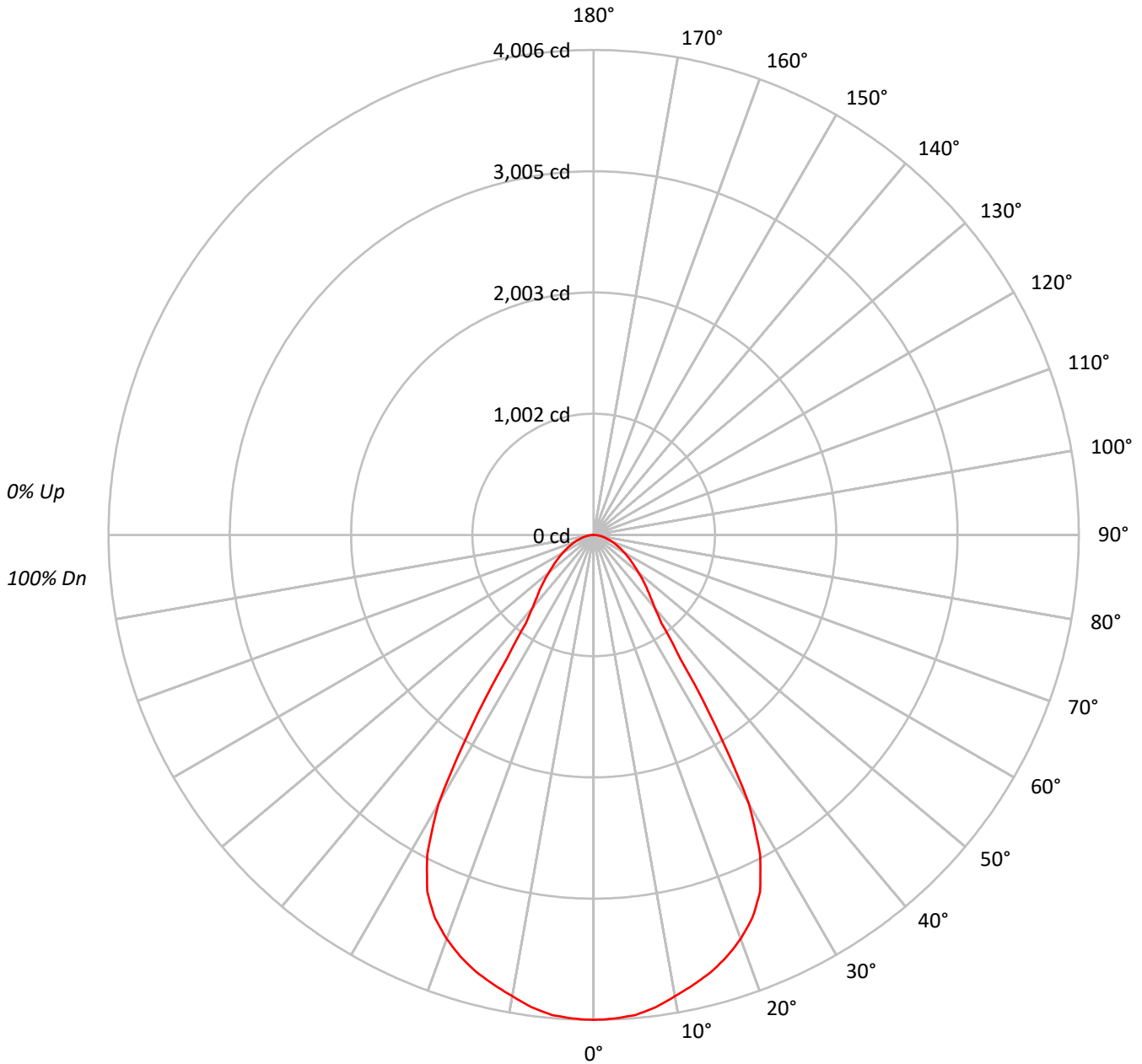
Lumens per Lamp: N/A
Luminaire Lumens: 4955.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593814
CATALOG NUMBER: HCC8W50D010SL-HM82555950-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P593814
 CATALOG NUMBER: HCC8W50D010SL-HM82555950-81NDW

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																											
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81																											
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																											
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67																											
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																											
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																											
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52																											
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																											
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																											
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123530
5°	123200
10°	121146
15°	119377
20°	116514
25°	110606
30°	91228
35°	46969
40°	31446
45°	26964
50°	23267
55°	20306
60°	18039
65°	16206
70°	14696
75°	13237
80°	11827
85°	11782



TEST NUMBER: P593814
 CATALOG NUMBER: HCC8W50D010SL-HM82555950-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.3	7.6
10°-20°	1052.1	21.2
20°-30°	1457.7	29.4
30°-40°	875.6	17.7
40°-50°	479.3	9.7
50°-60°	340.5	6.9
60°-70°	221.0	4.5
70°-80°	118.1	2.4
80°-90°	35.3	0.7
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°	2886.1	58.2
0°-40°	3761.7	75.9
0°-60°	4581.5	92.4
0°-90°	4955.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4955.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4006	
5°	3980	376
15°	3739	1052
25°	3251	1458
35°	1248	876
45°	618	479
55°	378	340
65°	222	221
75°	111	118
85°	33	35
90°	0	



TEST NUMBER: P593814

CATALOG NUMBER: HCC8W50D010SL-HM82555950-81NDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	4006.0
2.5°	3998.6
5°	3980.1
7.5°	3935.7
10°	3869.0
12.5°	3806.0
15°	3739.4
17.5°	3654.3
20°	3550.6
22.5°	3424.7
25°	3250.8
27.5°	2976.7
30°	2562.1
32.5°	1877.2
35°	1247.7
37.5°	921.9
40°	781.2
42.5°	692.4
45°	618.3
47.5°	547.9
50°	485.0
52.5°	425.7
55°	377.7
57.5°	333.2
60°	292.5
62.5°	255.4
65°	222.1
67.5°	188.8
70°	163.0
72.5°	133.3
75°	111.1
77.5°	88.8
80°	66.6
82.5°	48.2
85°	33.3
87.5°	14.8
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)