

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: P584801

Luminaire Tested: **HCC8W50D010SL-HM82555830-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584801
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-HM82555830-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

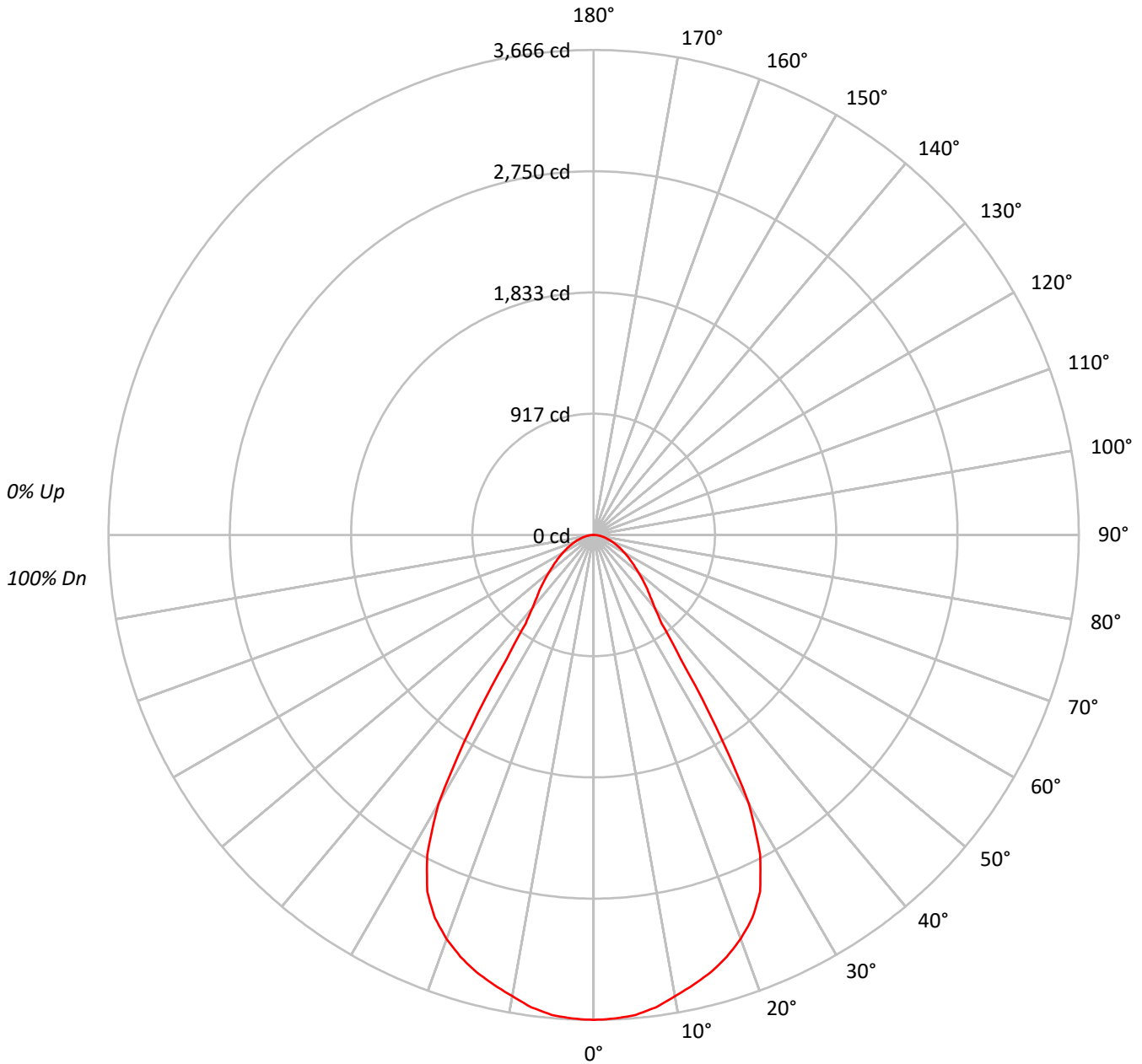
Lumens per Lamp: N/A
Luminaire Lumens: 4535.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584801
CATALOG NUMBER: HCC8W50D010SL-HM82555830-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584801

CATALOG NUMBER: HCC8W50D010SL-HM82555830-81NDW

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	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°	113052
5°	112750
10°	110873
15°	109251
20°	106633
25°	101222
30°	83491
35°	42986
40°	28782
45°	24678
50°	21295
55°	18585
60°	16510
65°	14834
70°	13434
75°	12117
80°	10832
85°	10791



TEST NUMBER: P584801
 CATALOG NUMBER: HCC8W50D010SL-HM82555830-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.4	7.6
10°-20°	962.9	21.2
20°-30°	1334.1	29.4
30°-40°	801.3	17.7
40°-50°	438.7	9.7
50°-60°	311.6	6.9
60°-70°	202.3	4.5
70°-80°	108.1	2.4
80°-90°	32.3	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°	2641.3	58.2
0°-40°	3442.7	75.9
0°-60°	4193.0	92.4
0°-90°	4535.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3666	
5°	3642	344
15°	3422	963
25°	2975	1334
35°	1142	801
45°	566	439
55°	346	312
65°	203	202
75°	102	108
85°	30	32
90°	0	



TEST NUMBER: P584801
CATALOG NUMBER: HCC8W50D010SL-HM82555830-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3666.2
2.5°	3659.4
5°	3642.5
7.5°	3601.9
10°	3540.9
12.5°	3483.3
15°	3422.2
17.5°	3344.4
20°	3249.5
22.5°	3134.3
25°	2975.0
27.5°	2724.2
30°	2344.8
32.5°	1718.0
35°	1141.9
37.5°	843.7
40°	715.0
42.5°	633.6
45°	565.9
47.5°	501.5
50°	443.9
52.5°	389.6
55°	345.7
57.5°	305.0
60°	267.7
62.5°	233.8
65°	203.3
67.5°	172.8
70°	149.0
72.5°	121.9
75°	101.7
77.5°	81.4
80°	61.0
82.5°	44.1
85°	30.5
87.5°	13.6
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)