

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: P584852

Luminaire Tested: **HCC8W50D010SL-HM82555927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584852
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-HM82555927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

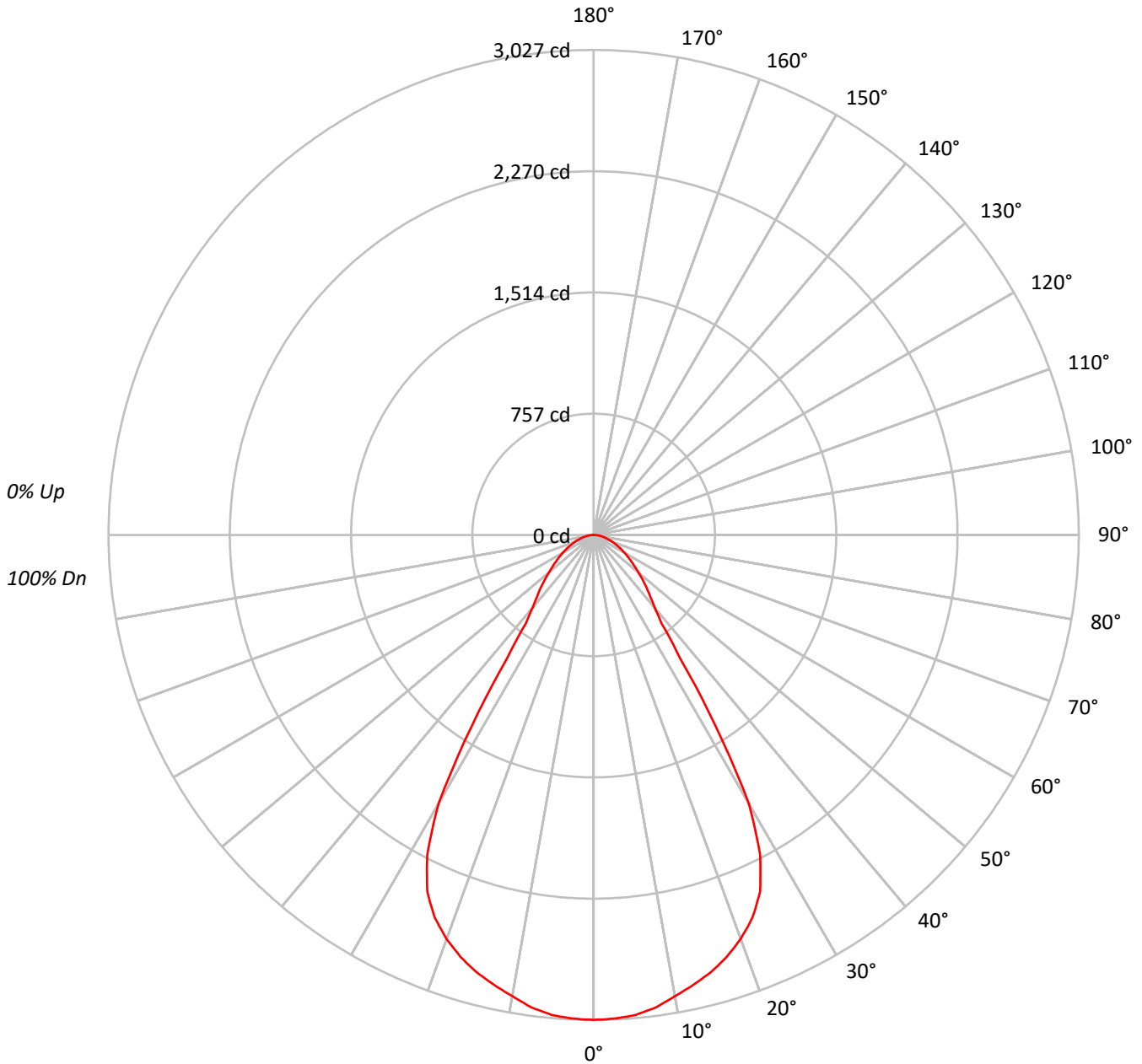
Lumens per Lamp: N/A
Luminaire Lumens: 3745.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584852
CATALOG NUMBER: HCC8W50D010SL-HM82555927-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584852

CATALOG NUMBER: HCC8W50D010SL-HM82555927-81NDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93345
5°	93098
10°	91547
15°	90208
20°	88047
25°	83577
30°	68938
35°	35491
40°	23762
45°	20374
50°	17582
55°	15344
60°	13636
65°	12251
70°	11099
75°	9996
80°	8950
85°	8881



TEST NUMBER: P584852
 CATALOG NUMBER: HCC8W50D010SL-HM82555927-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	7.6
10°-20°	795.0	21.2
20°-30°	1101.5	29.4
30°-40°	661.6	17.7
40°-50°	362.2	9.7
50°-60°	257.3	6.9
60°-70°	167.1	4.5
70°-80°	89.3	2.4
80°-90°	26.6	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°	2180.9	58.2
0°-40°	2842.6	75.9
0°-60°	3462.1	92.4
0°-90°	3745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3745.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3027	
5°	3008	284
15°	2826	795
25°	2456	1102
35°	943	662
45°	467	362
55°	285	257
65°	168	167
75°	84	89
85°	25	27
90°	0	



TEST NUMBER: P584852
CATALOG NUMBER: HCC8W50D010SL-HM82555927-81NDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3027.1
2.5°	3021.5
5°	3007.6
7.5°	2974.1
10°	2923.7
12.5°	2876.1
15°	2825.7
17.5°	2761.4
20°	2683.1
22.5°	2587.9
25°	2456.4
27.5°	2249.4
30°	1936.1
32.5°	1418.5
35°	942.8
37.5°	696.6
40°	590.3
42.5°	523.1
45°	467.2
47.5°	414.1
50°	366.5
52.5°	321.7
55°	285.4
57.5°	251.8
60°	221.1
62.5°	193.0
65°	167.9
67.5°	142.7
70°	123.1
72.5°	100.8
75°	83.9
77.5°	67.1
80°	50.4
82.5°	36.4
85°	25.1
87.5°	11.2
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)