

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: P584869

Luminaire Tested: **HCC8S50D010SL-HM82555930-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584869
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: HCC8S50D010SL-HM82555930-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

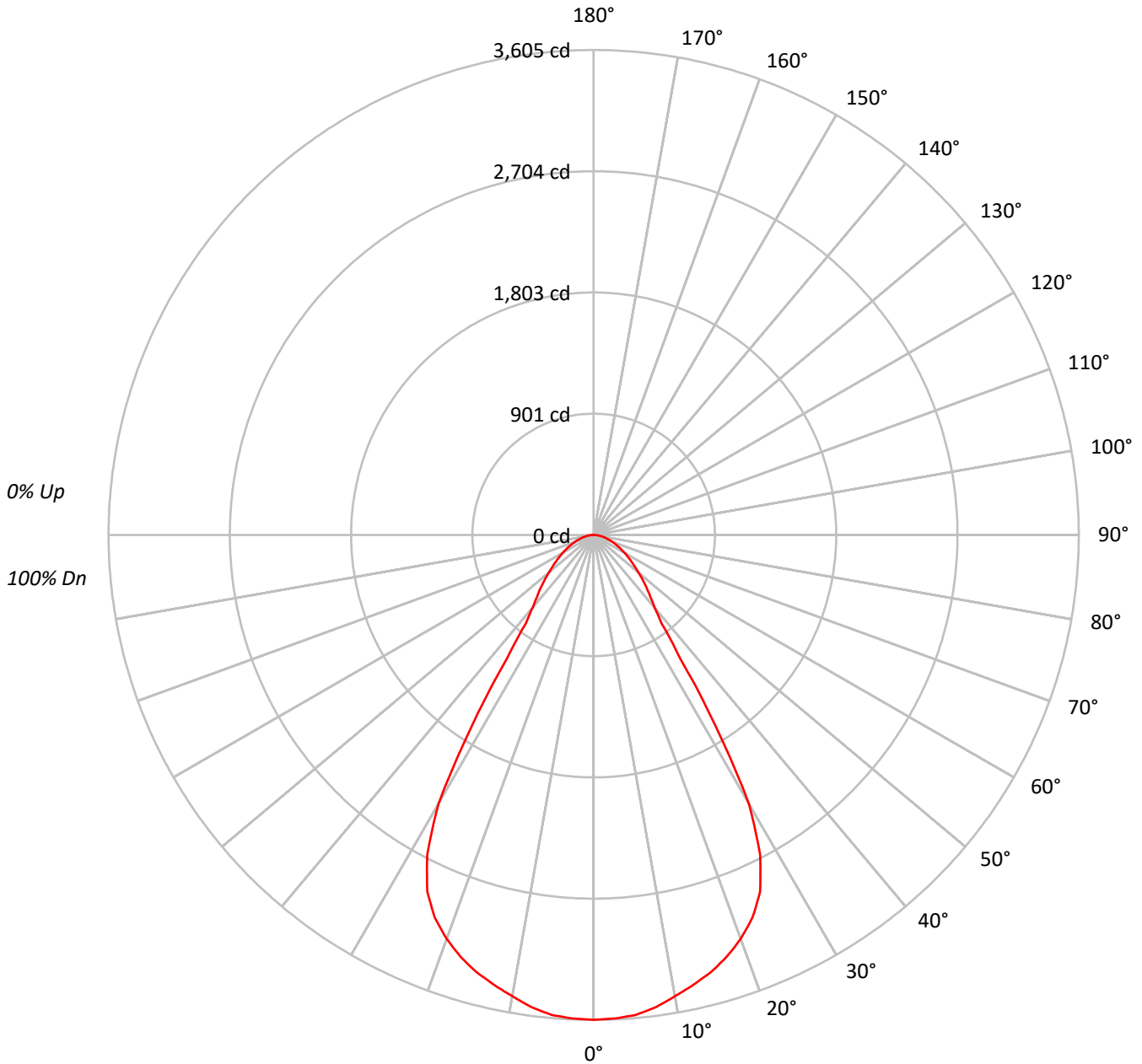
Lumens per Lamp: N/A
Luminaire Lumens: 4459.4 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): 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: P584869
CATALOG NUMBER: HCC8S50D010SL-HM82555930-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584869

CATALOG NUMBER: HCC8S50D010SL-HM82555930-81NDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20		
RC	80				70				50				30				10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
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°	111156
5°	110862
10°	109013
15°	107418
20°	104845
25°	99524
30°	82091
35°	42263
40°	28295
45°	24260
50°	20935
55°	18268
60°	16226
65°	14586
70°	13217
75°	11902
80°	10655
85°	10579



TEST NUMBER: P584869
 CATALOG NUMBER: HCC8S50D010SL-HM82555930-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	7.6
10°-20°	946.7	21.2
20°-30°	1311.7	29.4
30°-40°	787.9	17.7
40°-50°	431.3	9.7
50°-60°	306.4	6.9
60°-70°	198.9	4.5
70°-80°	106.3	2.4
80°-90°	31.7	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°	2597.0	58.2
0°-40°	3384.9	75.9
0°-60°	4122.5	92.4
0°-90°	4459.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3605	
5°	3582	339
15°	3365	947
25°	2925	1312
35°	1123	788
45°	556	431
55°	340	306
65°	200	199
75°	100	106
85°	30	32
90°	0	



TEST NUMBER: P584869
CATALOG NUMBER: HCC8S50D010SL-HM82555930-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3604.7
2.5°	3598.1
5°	3581.5
7.5°	3541.5
10°	3481.5
12.5°	3424.8
15°	3364.8
17.5°	3288.3
20°	3195.0
22.5°	3081.7
25°	2925.1
27.5°	2678.5
30°	2305.5
32.5°	1689.1
35°	1122.7
37.5°	829.5
40°	702.9
42.5°	623.0
45°	556.3
47.5°	493.1
50°	436.4
52.5°	383.1
55°	339.8
57.5°	299.8
60°	263.1
62.5°	229.8
65°	199.9
67.5°	169.9
70°	146.6
72.5°	119.9
75°	99.9
77.5°	80.0
80°	60.0
82.5°	43.3
85°	29.9
87.5°	13.3
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)