

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: P584860

Luminaire Tested: **HCC8W50D010MB-HM82555927-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010MB-HM82555927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

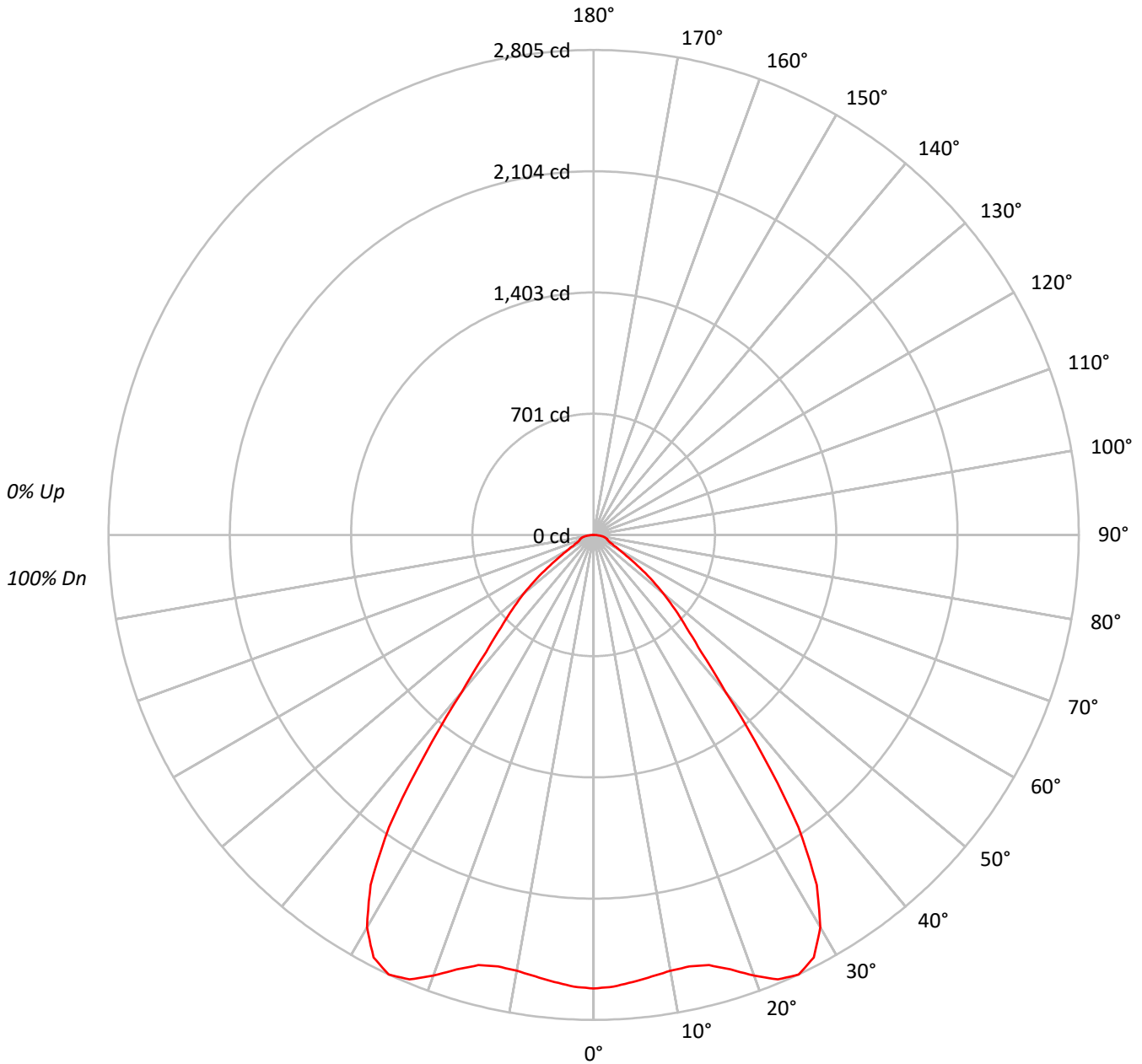
Lumens per Lamp: N/A
Luminaire Lumens: 4606.5 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584860
CATALOG NUMBER: HCC8W50D010MB-HM82555927-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584860
 CATALOG NUMBER: HCC8W50D010MB-HM82555927-81WDWB

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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																											
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81																											
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																											
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																											
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59																											
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54																											
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49																											
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																											
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41																											
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80899
5°	80341
10°	80134
15°	82236
20°	89028
25°	95451
30°	93318
35°	77701
40°	47741
45°	33056
50°	25224
55°	16542
60°	10355
65°	7756
70°	7817
75°	8995
80°	9944
85°	8881



TEST NUMBER: P584860
 CATALOG NUMBER: HCC8W50D010MB-HM82555927-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	5.4
10°-20°	739.5	16.1
20°-30°	1273.0	27.6
30°-40°	1233.4	26.8
40°-50°	607.5	13.2
50°-60°	286.7	6.2
60°-70°	113.0	2.5
70°-80°	77.9	1.7
80°-90°	28.9	0.6
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°	2259.1	49.0
0°-40°	3492.5	75.8
0°-60°	4386.6	95.2
0°-90°	4606.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2624	
5°	2596	247
15°	2576	739
25°	2805	1273
35°	2064	1233
45°	758	608
55°	308	287
65°	106	113
75°	76	78
85°	25	29
90°	0	



TEST NUMBER: P584860
CATALOG NUMBER: HCC8W50D010MB-HM82555927-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2623.5
2.5°	2615.2
5°	2595.5
7.5°	2576.0
10°	2559.2
12.5°	2556.4
15°	2576.0
17.5°	2634.7
20°	2713.0
22.5°	2782.9
25°	2805.4
27.5°	2755.0
30°	2620.8
32.5°	2399.7
35°	2064.1
37.5°	1602.7
40°	1186.0
42.5°	920.2
45°	758.0
47.5°	637.7
50°	525.8
52.5°	413.9
55°	307.7
57.5°	223.7
60°	167.9
62.5°	131.5
65°	106.3
67.5°	92.4
70°	86.7
72.5°	81.1
75°	75.5
77.5°	67.1
80°	56.0
82.5°	42.0
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)