

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: P584908

Luminaire Tested: **HCC8W50D010MB-HM82555940-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010MB-HM82555940-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

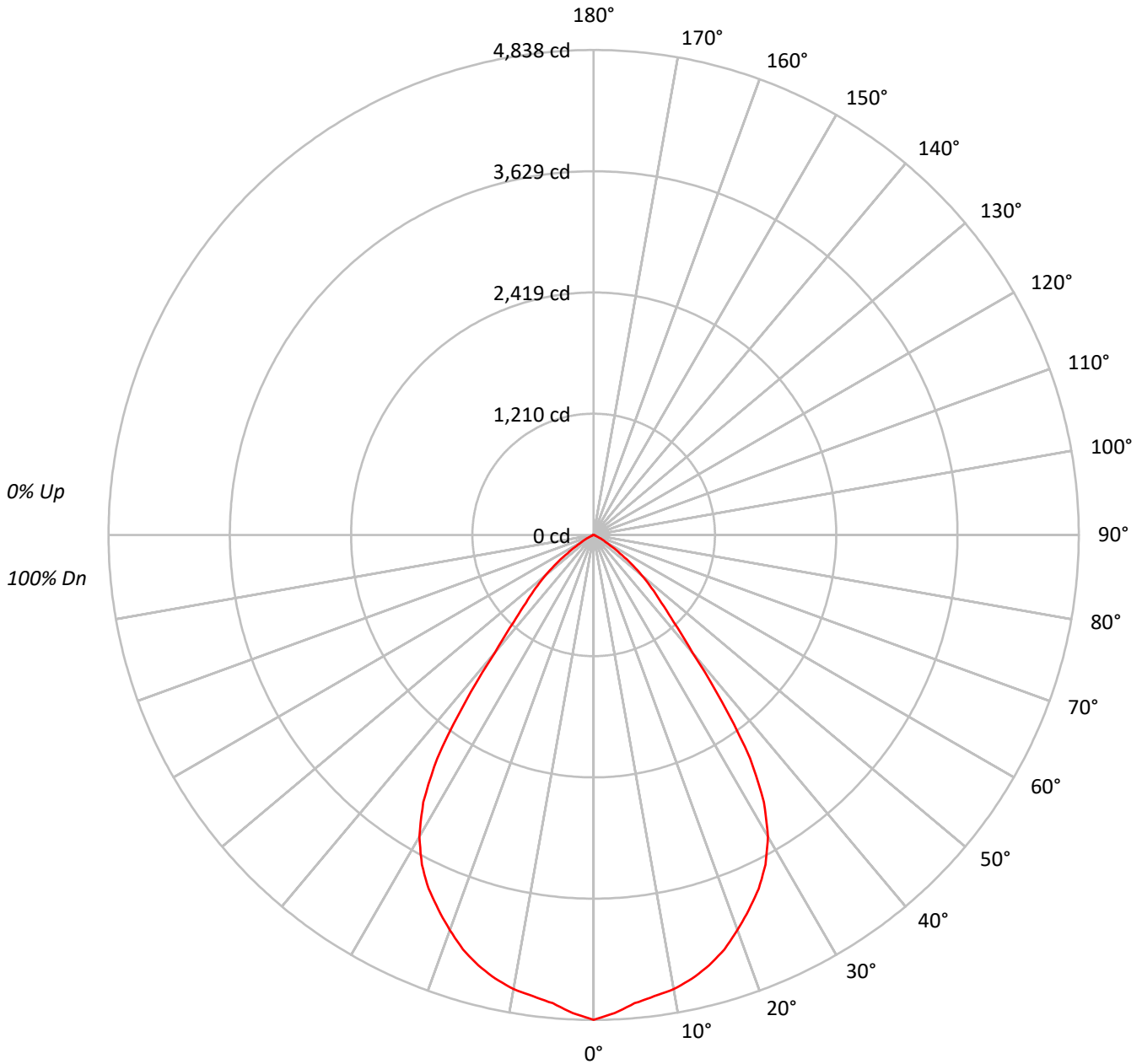
Lumens per Lamp: N/A
Luminaire Lumens: 6218.1 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584908
CATALOG NUMBER: HCC8W50D010MB-HM82555940-81WDC

Luminous Intensity Polar Plot





TEST NUMBER: P584908
 CATALOG NUMBER: HCC8W50D010MB-HM82555940-81WDC

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77			77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70			70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59			59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54			54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	149183
5°	145172
10°	144070
15°	141922
20°	137624
25°	132493
30°	123762
35°	102415
40°	61838
45°	41647
50°	30007
55°	17112
60°	7536
65°	2707
70°	1001
75°	441
80°	0
85°	0



TEST NUMBER: P584908
 CATALOG NUMBER: HCC8W50D010MB-HM82555940-81WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.6	7.2
10°-20°	1249.4	20.1
20°-30°	1782.2	28.7
30°-40°	1622.9	26.1
40°-50°	765.6	12.3
50°-60°	301.1	4.8
60°-70°	48.0	0.8
70°-80°	3.4	0.1
80°-90°	0.0	0.0
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°	3477.2	55.9
0°-40°	5100.1	82.0
0°-60°	6166.7	99.2
0°-90°	6218.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4838	
5°	4690	446
15°	4446	1249
25°	3894	1782
35°	2721	1623
45°	955	766
55°	318	301
65°	37	48
75°	4	3
85°	0	0
90°	0	



TEST NUMBER: P584908
CATALOG NUMBER: HCC8W50D010MB-HM82555940-81WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	4837.9
2.5°	4775.0
5°	4689.9
7.5°	4641.7
10°	4601.1
12.5°	4534.4
15°	4445.6
17.5°	4334.5
20°	4193.9
22.5°	4045.8
25°	3894.1
27.5°	3709.0
30°	3475.8
32.5°	3161.1
35°	2720.6
37.5°	2102.4
40°	1536.2
42.5°	1180.8
45°	955.0
47.5°	784.7
50°	625.5
52.5°	470.1
55°	318.3
57.5°	199.9
60°	122.2
62.5°	74.0
65°	37.1
67.5°	18.5
70°	11.1
72.5°	3.7
75°	3.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)