

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: P584858

Luminaire Tested: **HCC8W50D010BZ-HM82555927-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010BZ-HM82555927-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

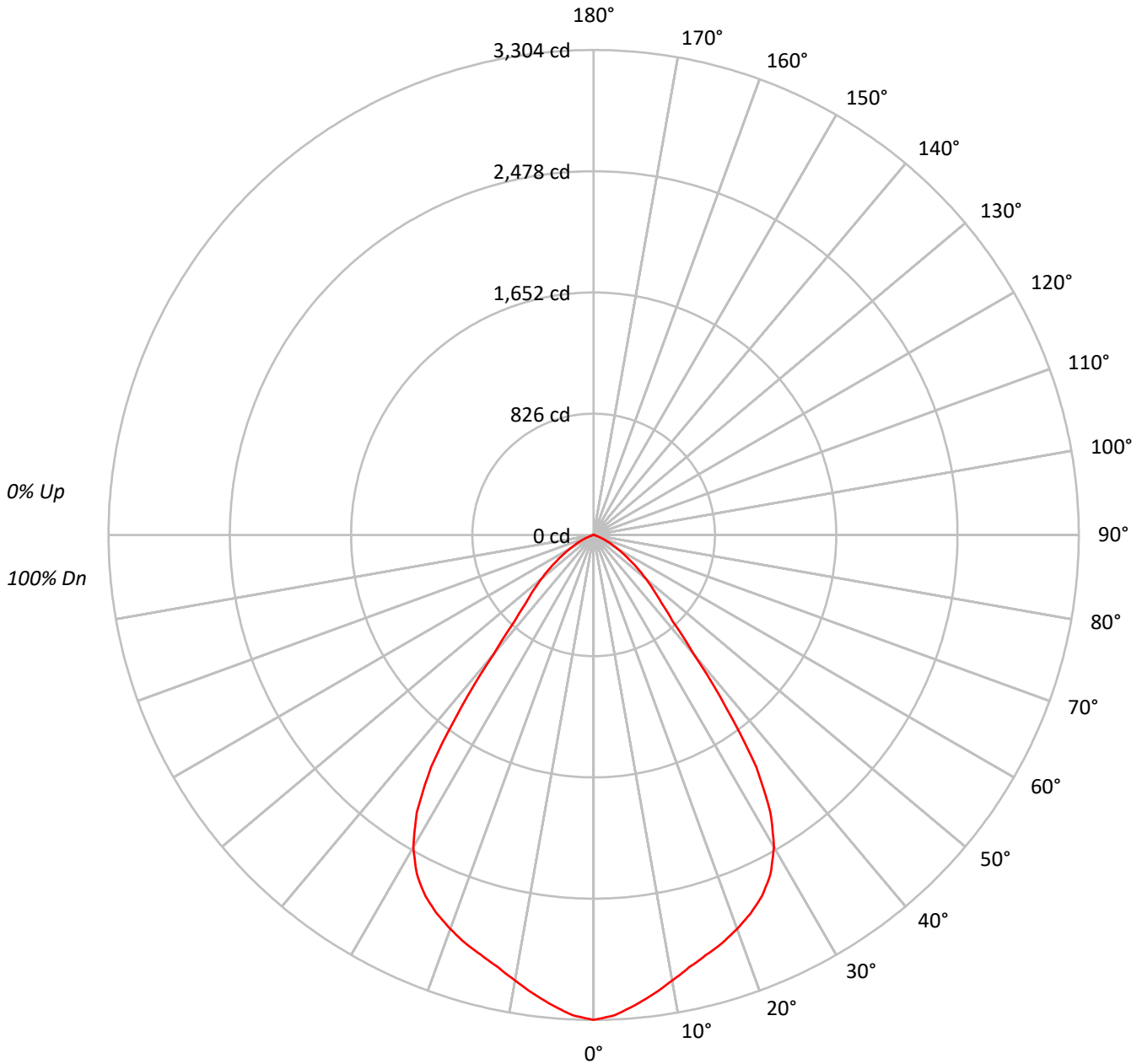
Lumens per Lamp: N/A
Luminaire Lumens: 4449.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584858
CATALOG NUMBER: HCC8W50D010BZ-HM82555927-81WDH

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P584858

CATALOG NUMBER: HCC8W50D010BZ-HM82555927-81WDH

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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101874
5°	99579
10°	96526
15°	94572
20°	93724
25°	92324
30°	87454
35°	72657
40°	42790
45°	28302
50°	22274
55°	16392
60°	11385
65°	6946
70°	3029
75°	1334
80°	994
85°	0



TEST NUMBER: P584858
 CATALOG NUMBER: HCC8W50D010BZ-HM82555927-81WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.9	6.8
10°-20°	837.5	18.8
20°-30°	1240.8	27.9
30°-40°	1146.6	25.8
40°-50°	528.7	11.9
50°-60°	278.0	6.2
60°-70°	98.3	2.2
70°-80°	15.4	0.3
80°-90°	1.5	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°	2381.3	53.5
0°-40°	3527.9	79.3
0°-60°	4334.6	97.4
0°-90°	4449.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4449.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3304	
5°	3217	303
15°	2962	838
25°	2714	1241
35°	1930	1147
45°	649	529
55°	305	278
65°	95	98
75°	11	15
85°	0	2
90°	0	



TEST NUMBER: P584858
CATALOG NUMBER: HCC8W50D010BZ-HM82555927-81WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3303.7
2.5°	3275.7
5°	3217.0
7.5°	3152.7
10°	3082.7
12.5°	3015.6
15°	2962.4
17.5°	2914.9
20°	2856.1
22.5°	2791.8
25°	2713.5
27.5°	2607.1
30°	2456.1
32.5°	2240.7
35°	1930.1
37.5°	1482.6
40°	1063.0
42.5°	797.3
45°	649.0
47.5°	551.1
50°	464.3
52.5°	380.4
55°	304.9
57.5°	240.6
60°	184.6
62.5°	139.8
65°	95.2
67.5°	56.0
70°	33.6
72.5°	19.6
75°	11.2
77.5°	8.4
80°	5.6
82.5°	2.8
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)