

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: P584645

Luminaire Tested: **HCC8W45D010BZ-HM82555827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010BZ-HM82555827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

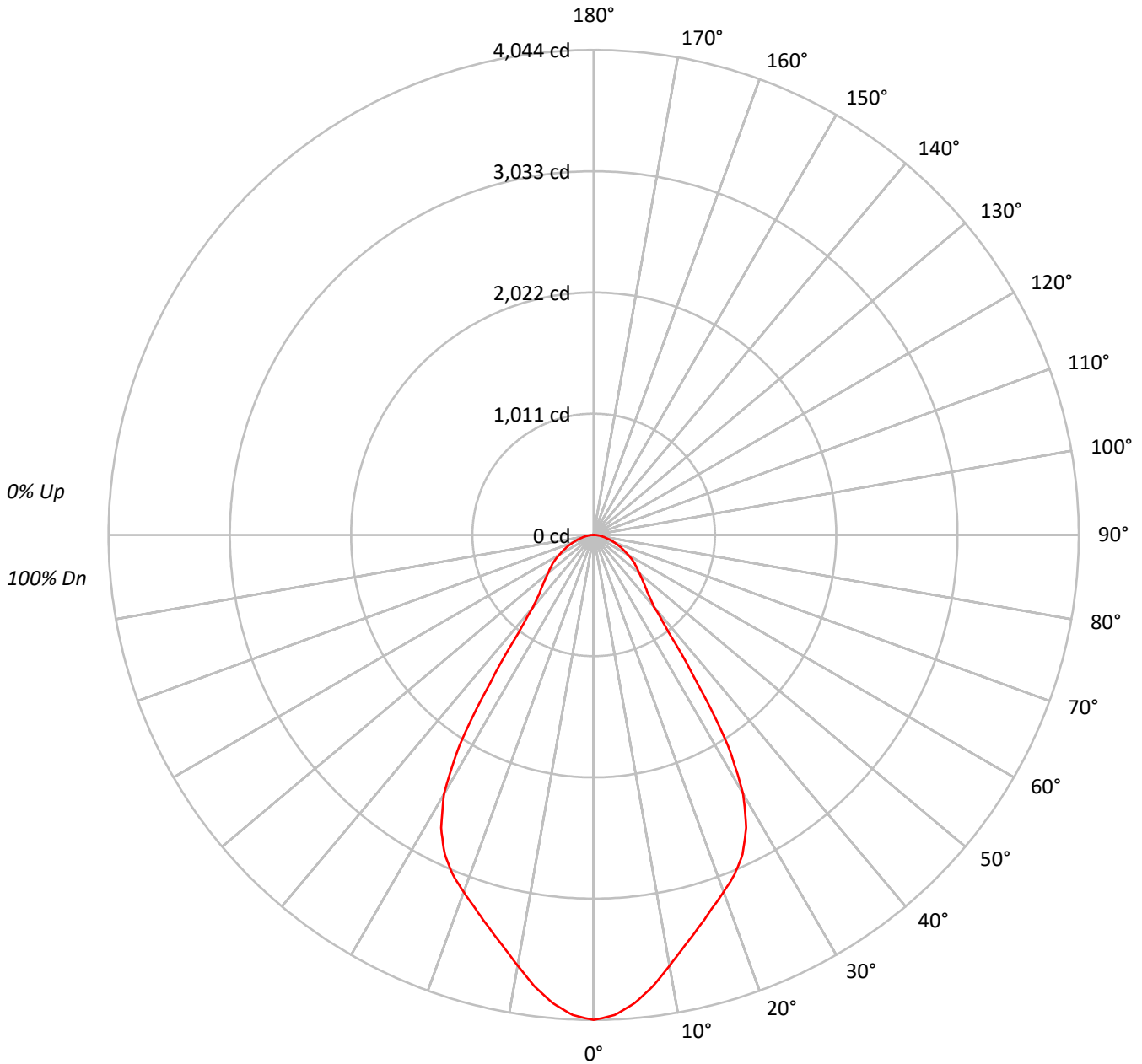
Lumens per Lamp: N/A
Luminaire Lumens: 4877.4 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P584645
CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584645
 CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81MDW

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54				
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124711
5°	121312
10°	114157
15°	108082
20°	103969
25°	99956
30°	88771
35°	56534
40°	31551
45°	26427
50°	23862
55°	22488
60°	20518
65°	18504
70°	16328
75°	14523
80°	12874
85°	11676



TEST NUMBER: P584645
 CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.4	7.5
10°-20°	954.8	19.6
20°-30°	1332.1	27.3
30°-40°	958.5	19.7
40°-50°	475.0	9.7
50°-60°	371.7	7.6
60°-70°	251.6	5.2
70°-80°	130.7	2.7
80°-90°	37.6	0.8
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°	2652.2	54.4
0°-40°	3610.7	74.0
0°-60°	4457.4	91.4
0°-90°	4877.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4877.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4044	
5°	3919	365
15°	3386	955
25°	2938	1332
35°	1502	959
45°	606	475
55°	418	372
65°	254	252
75°	122	131
85°	33	38
90°	0	

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



TEST NUMBER: P584645

CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4044.3
2.5°	4008.1
5°	3919.1
7.5°	3794.1
10°	3645.8
12.5°	3507.5
15°	3385.6
17.5°	3270.3
20°	3168.3
22.5°	3066.2
25°	2937.8
27.5°	2753.3
30°	2493.1
32.5°	2084.8
35°	1501.8
37.5°	1024.3
40°	783.8
42.5°	675.2
45°	606.0
47.5°	546.7
50°	497.4
52.5°	454.5
55°	418.3
57.5°	375.5
60°	332.7
62.5°	289.8
65°	253.6
67.5°	217.4
70°	181.1
72.5°	151.6
75°	121.9
77.5°	95.5
80°	72.5
82.5°	52.7
85°	33.0
87.5°	16.4
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)