

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: P584877

Luminaire Tested: **HCC8W50D010BZ-HM82555930-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584877
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: HCC8W50D010BZ-HM82555930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

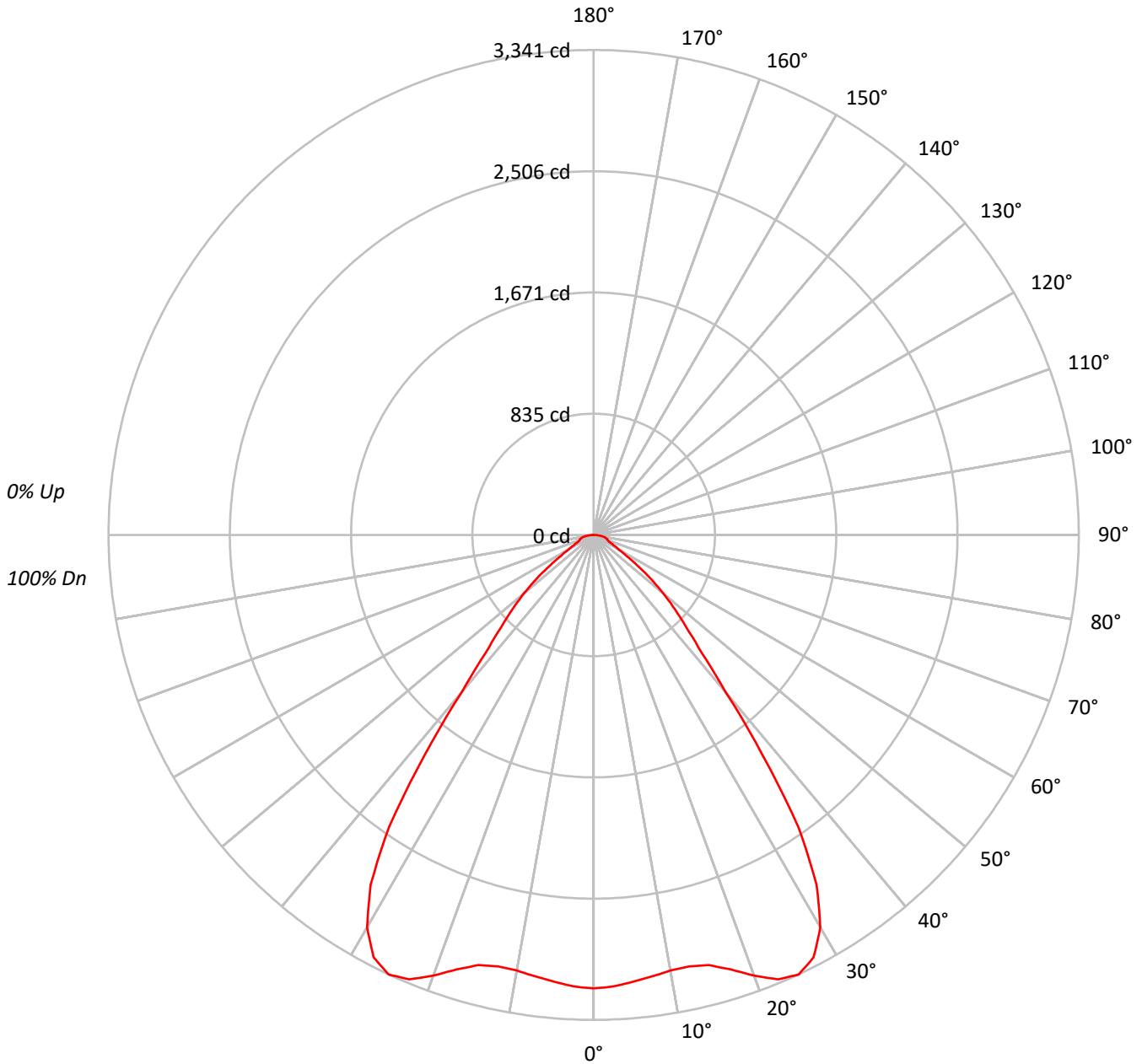
Lumens per Lamp: N/A
Luminaire Lumens: 5485.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (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: P584877
CATALOG NUMBER: HCC8W50D010BZ-HM82555930-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584877
 CATALOG NUMBER: HCC8W50D010BZ-HM82555930-81WDWB

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96339
5°	95673
10°	95423
15°	97927
20°	106013
25°	113664
30°	111121
35°	92526
40°	56847
45°	39362
50°	30036
55°	19698
60°	12322
65°	9237
70°	9304
75°	10711
80°	11827
85°	10579



TEST NUMBER: P584877
 CATALOG NUMBER: HCC8W50D010BZ-HM82555930-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	5.4
10°-20°	880.6	16.1
20°-30°	1515.9	27.6
30°-40°	1468.7	26.8
40°-50°	723.4	13.2
50°-60°	341.4	6.2
60°-70°	134.5	2.5
70°-80°	92.8	1.7
80°-90°	34.4	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°	2690.2	49.0
0°-40°	4158.8	75.8
0°-60°	5223.6	95.2
0°-90°	5485.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5485.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3124	
5°	3091	294
15°	3068	881
25°	3341	1516
35°	2458	1469
45°	903	723
55°	366	341
65°	127	135
75°	90	93
85°	30	34
90°	0	



TEST NUMBER: P584877
CATALOG NUMBER: HCC8W50D010BZ-HM82555930-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	3124.2
2.5°	3114.1
5°	3090.8
7.5°	3067.5
10°	3047.5
12.5°	3044.2
15°	3067.5
17.5°	3137.5
20°	3230.6
22.5°	3314.0
25°	3340.7
27.5°	3280.7
30°	3120.8
32.5°	2857.6
35°	2457.9
37.5°	1908.4
40°	1412.2
42.5°	1095.8
45°	902.6
47.5°	759.4
50°	626.1
52.5°	493.0
55°	366.4
57.5°	266.4
60°	199.8
62.5°	156.5
65°	126.6
67.5°	109.9
70°	103.2
72.5°	96.6
75°	89.9
77.5°	80.0
80°	66.6
82.5°	49.9
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)