

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: P584859

Luminaire Tested: **HCC8S50D010BZ-HM82555927-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S50D010BZ-HM82555927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

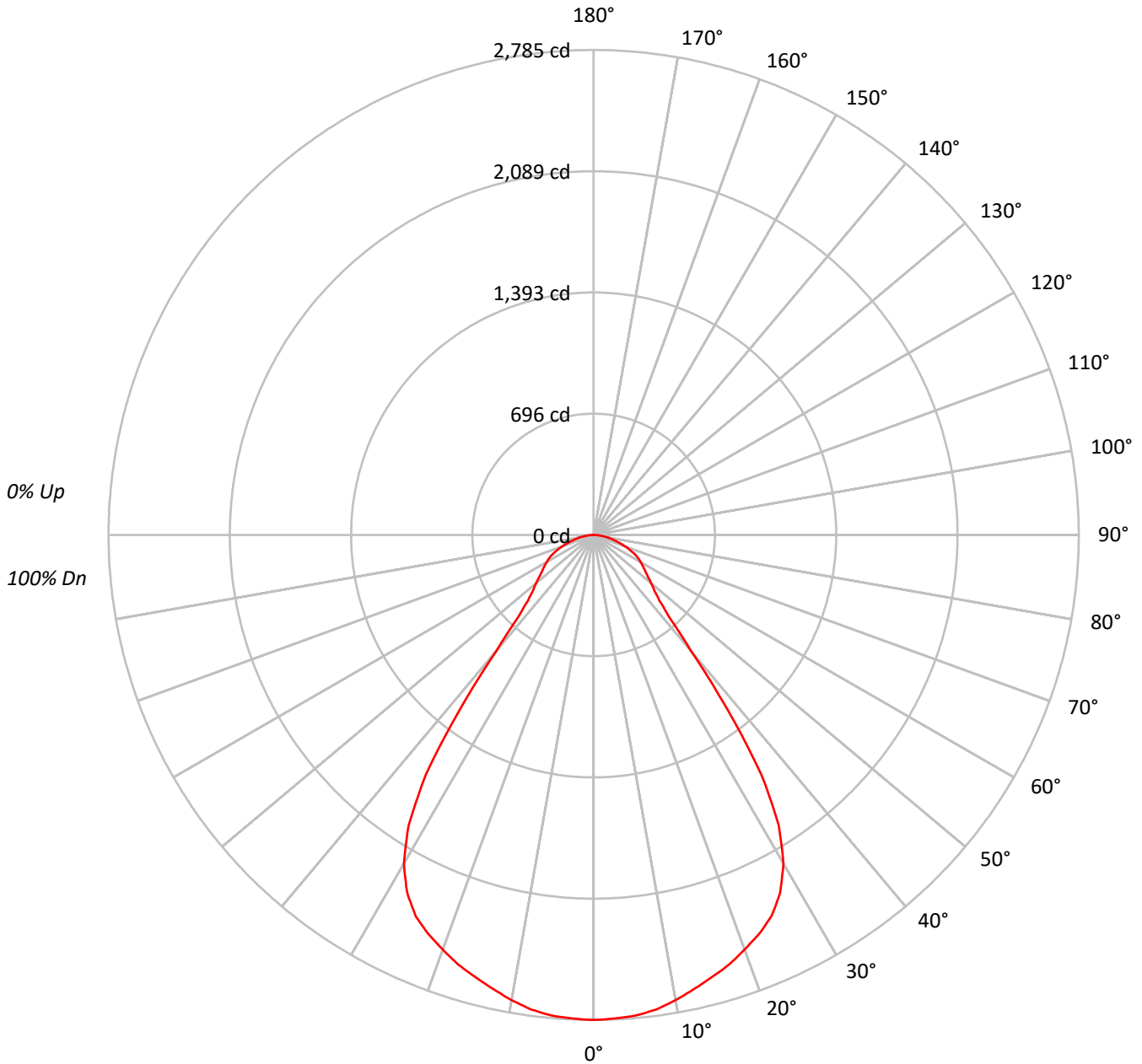
Lumens per Lamp: N/A
Luminaire Lumens: 4296.1 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584859
CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P584859

CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81WDW

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85888
5°	85780
10°	84934
15°	83916
20°	83141
25°	82206
30°	77566
35°	63163
40°	34896
45°	23292
50°	20662
55°	19397
60°	19143
65°	18978
70°	17148
75°	15322
80°	13407
85°	11888



TEST NUMBER: P584859
 CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	6.1
10°-20°	742.2	17.3
20°-30°	1102.8	25.7
30°-40°	993.2	23.1
40°-50°	440.3	10.2
50°-60°	326.1	7.6
60°-70°	253.6	5.9
70°-80°	137.5	3.2
80°-90°	37.7	0.9
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°	2107.7	49.1
0°-40°	3100.9	72.2
0°-60°	3867.3	90.0
0°-90°	4296.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4296.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2785	
5°	2771	263
15°	2629	742
25°	2416	1103
35°	1678	993
45°	534	440
55°	361	326
65°	260	254
75°	129	138
85°	34	38
90°	0	



TEST NUMBER: P584859
CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2785.3
2.5°	2779.6
5°	2771.2
7.5°	2748.9
10°	2712.5
12.5°	2670.6
15°	2628.6
17.5°	2586.6
20°	2533.6
22.5°	2480.4
25°	2416.1
27.5°	2318.2
30°	2178.4
32.5°	1977.0
35°	1677.9
37.5°	1252.8
40°	866.9
42.5°	640.4
45°	534.1
47.5°	472.6
50°	430.7
52.5°	391.5
55°	360.8
57.5°	335.6
60°	310.4
62.5°	288.0
65°	260.1
67.5°	226.6
70°	190.2
72.5°	159.5
75°	128.6
77.5°	100.7
80°	75.5
82.5°	53.2
85°	33.6
87.5°	14.0
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)