

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: P593815

Luminaire Tested: **HCC8S50D010BZ-HM82555950-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S50D010BZ-HM82555950-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

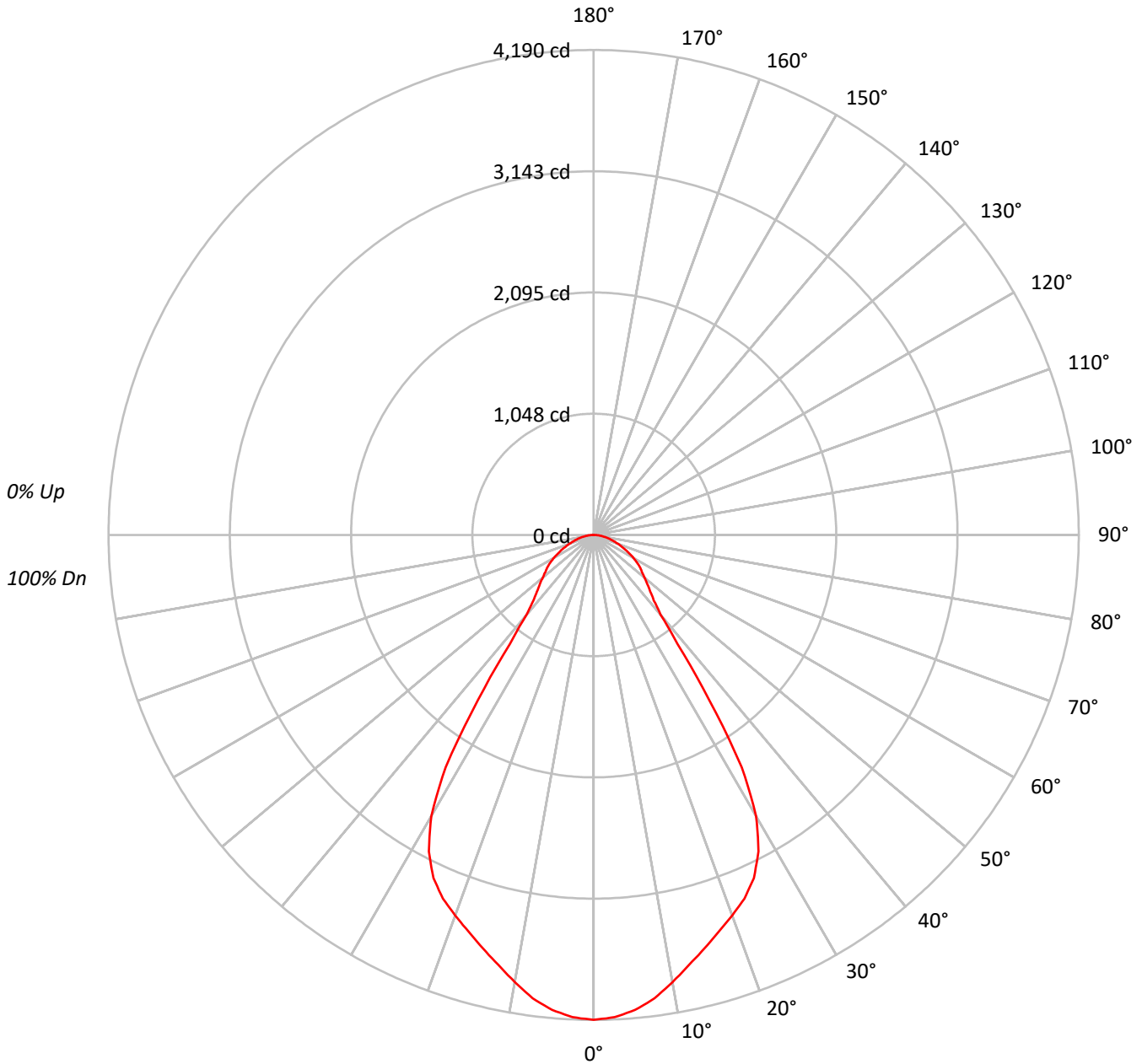
Lumens per Lamp: N/A
Luminaire Lumens: 5503.8 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593815
CATALOG NUMBER: HCC8S50D010BZ-HM82555950-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P593815

CATALOG NUMBER: HCC8S50D010BZ-HM82555950-81PSMDW

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	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	129192
5°	127506
10°	122837
15°	118033
20°	114768
25°	111317
30°	99891
35°	65482
40°	36200
45°	30178
50°	27517
55°	26262
60°	24429
65°	22145
70°	20024
75°	18074
80°	16426
85°	15709



TEST NUMBER: P593815
 CATALOG NUMBER: HCC8S50D010BZ-HM82555950-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	7.0
10°-20°	1043.1	19.0
20°-30°	1484.5	27.0
30°-40°	1098.7	20.0
40°-50°	544.2	9.9
50°-60°	434.3	7.9
60°-70°	301.5	5.5
70°-80°	162.5	3.0
80°-90°	47.8	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°	2914.7	53.0
0°-40°	4013.4	72.9
0°-60°	4991.9	90.7
0°-90°	5503.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5503.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4190	
5°	4119	387
15°	3697	1043
25°	3272	1485
35°	1740	1099
45°	692	544
55°	488	434
65°	304	302
75°	152	163
85°	44	48
90°	0	



TEST NUMBER: P593815
CATALOG NUMBER: HCC8S50D010BZ-HM82555950-81PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	4189.6
2.5°	4171.0
5°	4119.2
7.5°	4037.8
10°	3923.0
12.5°	3804.6
15°	3697.3
17.5°	3593.7
20°	3497.4
22.5°	3401.2
25°	3271.7
27.5°	3082.9
30°	2805.4
32.5°	2379.7
35°	1739.5
37.5°	1188.1
40°	899.3
42.5°	769.8
45°	692.0
47.5°	629.2
50°	573.6
52.5°	525.6
55°	488.5
57.5°	444.1
60°	396.1
62.5°	347.9
65°	303.5
67.5°	259.1
70°	222.1
72.5°	185.1
75°	151.7
77.5°	122.2
80°	92.5
82.5°	66.6
85°	44.4
87.5°	18.5
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)