

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: P584853

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584853
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-HM82555927-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

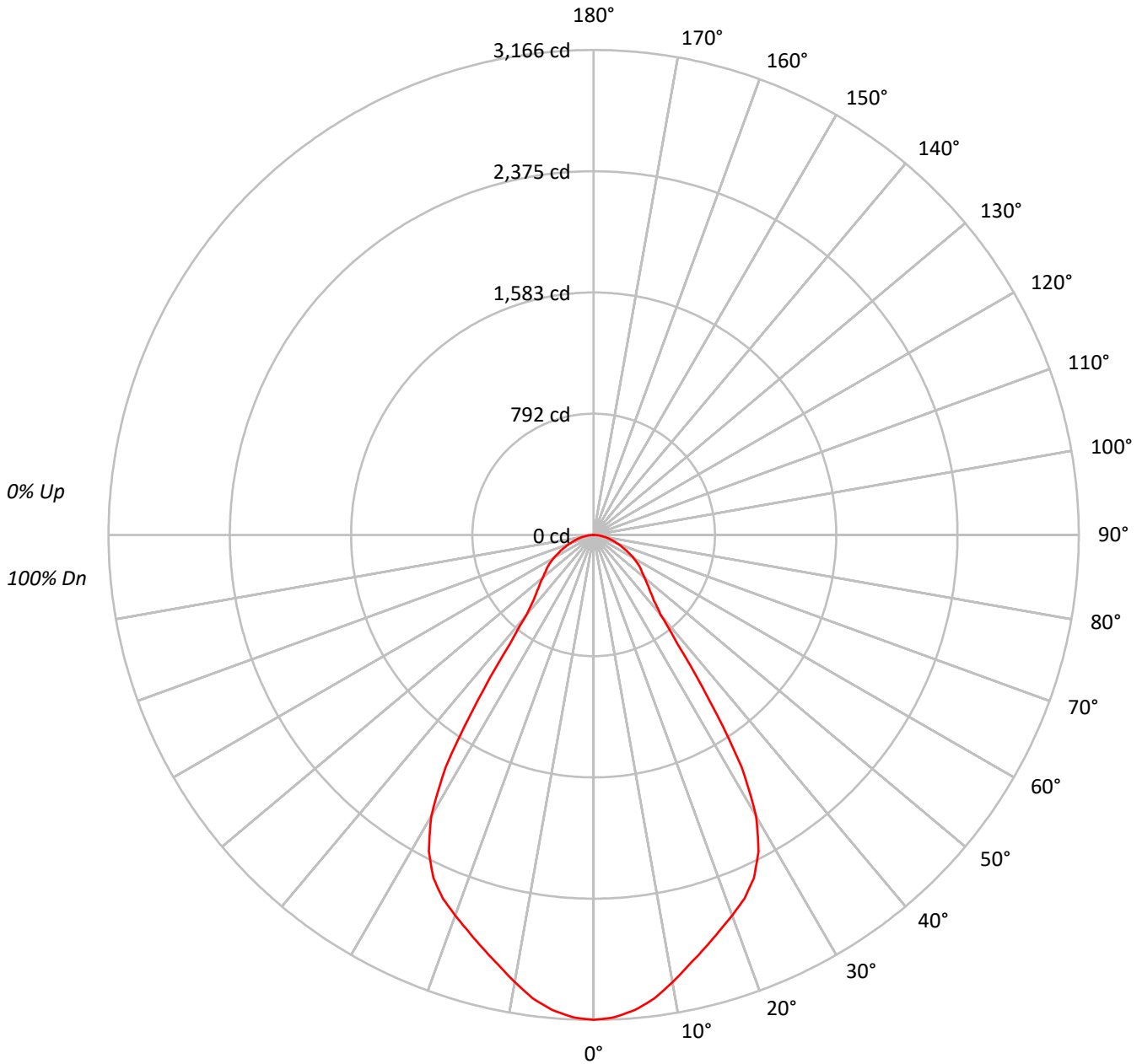
Lumens per Lamp: N/A
Luminaire Lumens: 4159.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584853
CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P584853
 CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81PSMDW

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°	97625
5°	96351
10°	92824
15°	89193
20°	86728
25°	84118
30°	75483
35°	49480
40°	27353
45°	22808
50°	20796
55°	19849
60°	18459
65°	16738
70°	15129
75°	13666
80°	12413
85°	11888



TEST NUMBER: P584853
 CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	7.0
10°-20°	788.2	19.0
20°-30°	1121.8	27.0
30°-40°	830.3	20.0
40°-50°	411.2	9.9
50°-60°	328.2	7.9
60°-70°	227.9	5.5
70°-80°	122.8	3.0
80°-90°	36.2	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°	2202.5	53.0
0°-40°	3032.8	72.9
0°-60°	3772.2	90.7
0°-90°	4159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4159.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3166	
5°	3113	292
15°	2794	788
25°	2472	1122
35°	1314	830
45°	523	411
55°	369	328
65°	229	228
75°	115	123
85°	34	36
90°	0	



TEST NUMBER: P584853

CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3165.9
2.5°	3151.9
5°	3112.7
7.5°	3051.2
10°	2964.5
12.5°	2875.0
15°	2793.9
17.5°	2715.6
20°	2642.9
22.5°	2570.2
25°	2472.3
27.5°	2329.6
30°	2119.9
32.5°	1798.3
35°	1314.4
37.5°	897.8
40°	679.5
42.5°	581.7
45°	523.0
47.5°	475.4
50°	433.5
52.5°	397.1
55°	369.2
57.5°	335.6
60°	299.3
62.5°	262.9
65°	229.4
67.5°	195.8
70°	167.8
72.5°	139.8
75°	114.7
77.5°	92.2
80°	69.9
82.5°	50.4
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)