

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: P593809

Luminaire Tested: **HCC8S50D010MW-HM82555950-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S50D010MW-HM82555950-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

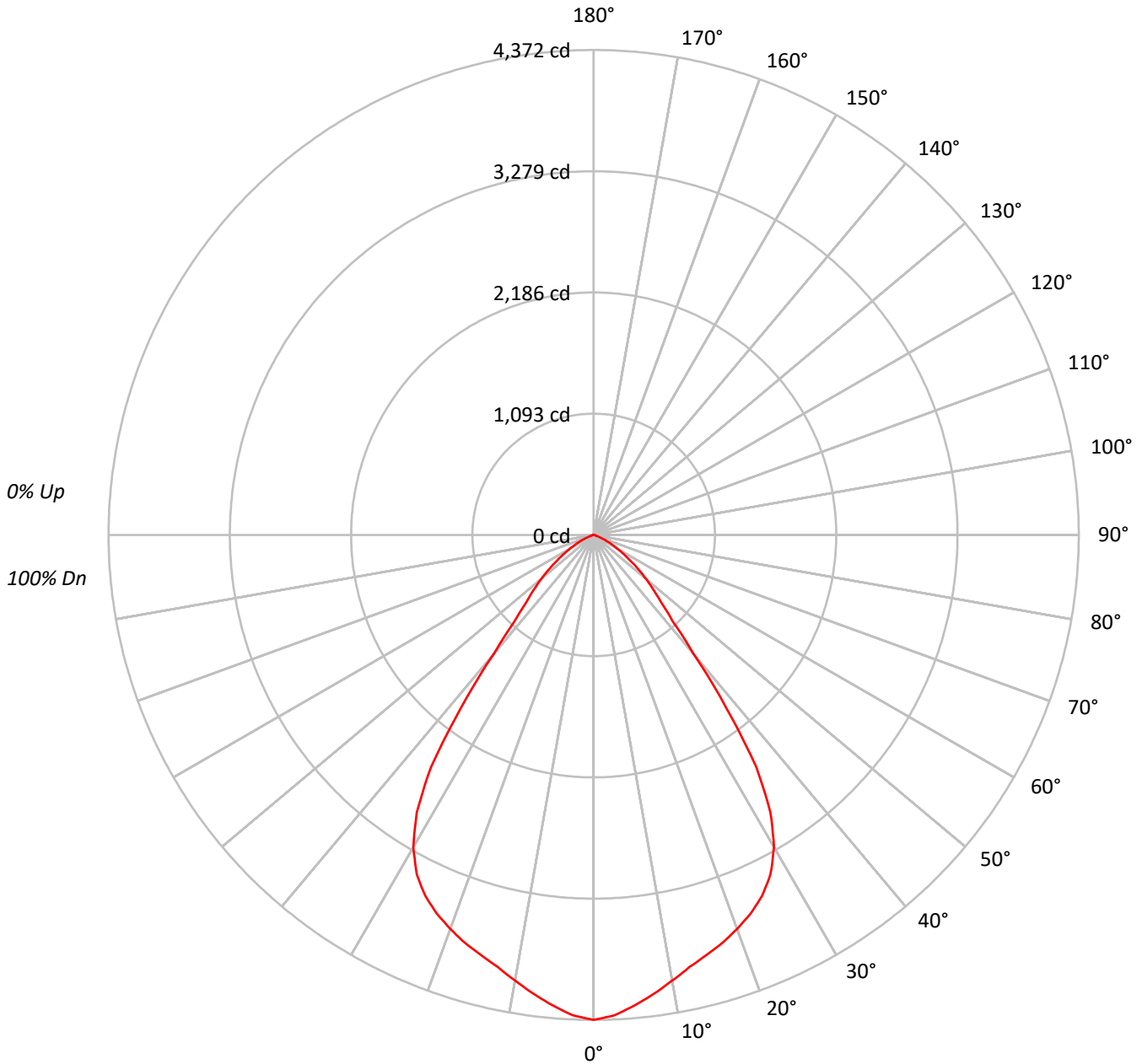
Lumens per Lamp: N/A
Luminaire Lumens: 5888.7 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593809
CATALOG NUMBER: HCC8S50D010MW-HM82555950-81WDH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593809

CATALOG NUMBER: HCC8S50D010MW-HM82555950-81WDH

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134813
5°	131775
10°	127737
15°	125155
20°	124029
25°	122174
30°	115732
35°	96155
40°	56629
45°	37456
50°	29479
55°	21693
60°	15067
65°	9186
70°	4003
75°	1763
80°	1314
85°	0



TEST NUMBER: P593809
 CATALOG NUMBER: HCC8S50D010MW-HM82555950-81WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.9	6.8
10°-20°	1108.3	18.8
20°-30°	1642.1	27.9
30°-40°	1517.3	25.8
40°-50°	699.6	11.9
50°-60°	368.0	6.2
60°-70°	130.0	2.2
70°-80°	20.4	0.3
80°-90°	2.0	0.0
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°	3151.3	53.5
0°-40°	4668.6	79.3
0°-60°	5736.2	97.4
0°-90°	5888.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5888.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4372	
5°	4257	401
15°	3920	1108
25°	3591	1642
35°	2554	1517
45°	859	700
55°	404	368
65°	126	130
75°	15	20
85°	0	2
90°	0	



TEST NUMBER: P593809
CATALOG NUMBER: HCC8S50D010MW-HM82555950-81WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	4371.9
2.5°	4334.9
5°	4257.1
7.5°	4172.0
10°	4079.5
12.5°	3990.6
15°	3920.4
17.5°	3857.3
20°	3779.6
22.5°	3694.5
25°	3590.8
27.5°	3450.2
30°	3250.3
32.5°	2965.2
35°	2554.3
37.5°	1962.0
40°	1406.8
42.5°	1055.0
45°	858.9
47.5°	729.2
50°	614.5
52.5°	503.5
55°	403.5
57.5°	318.3
60°	244.3
62.5°	185.1
65°	125.9
67.5°	74.0
70°	44.4
72.5°	26.0
75°	14.8
77.5°	11.1
80°	7.4
82.5°	3.7
85°	0.0
87.5°	0.0
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)