

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: P593544

Luminaire Tested: **HCC8W10D010BZ-HM80520950-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593544
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: HCC8W10D010BZ-HM80520950-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

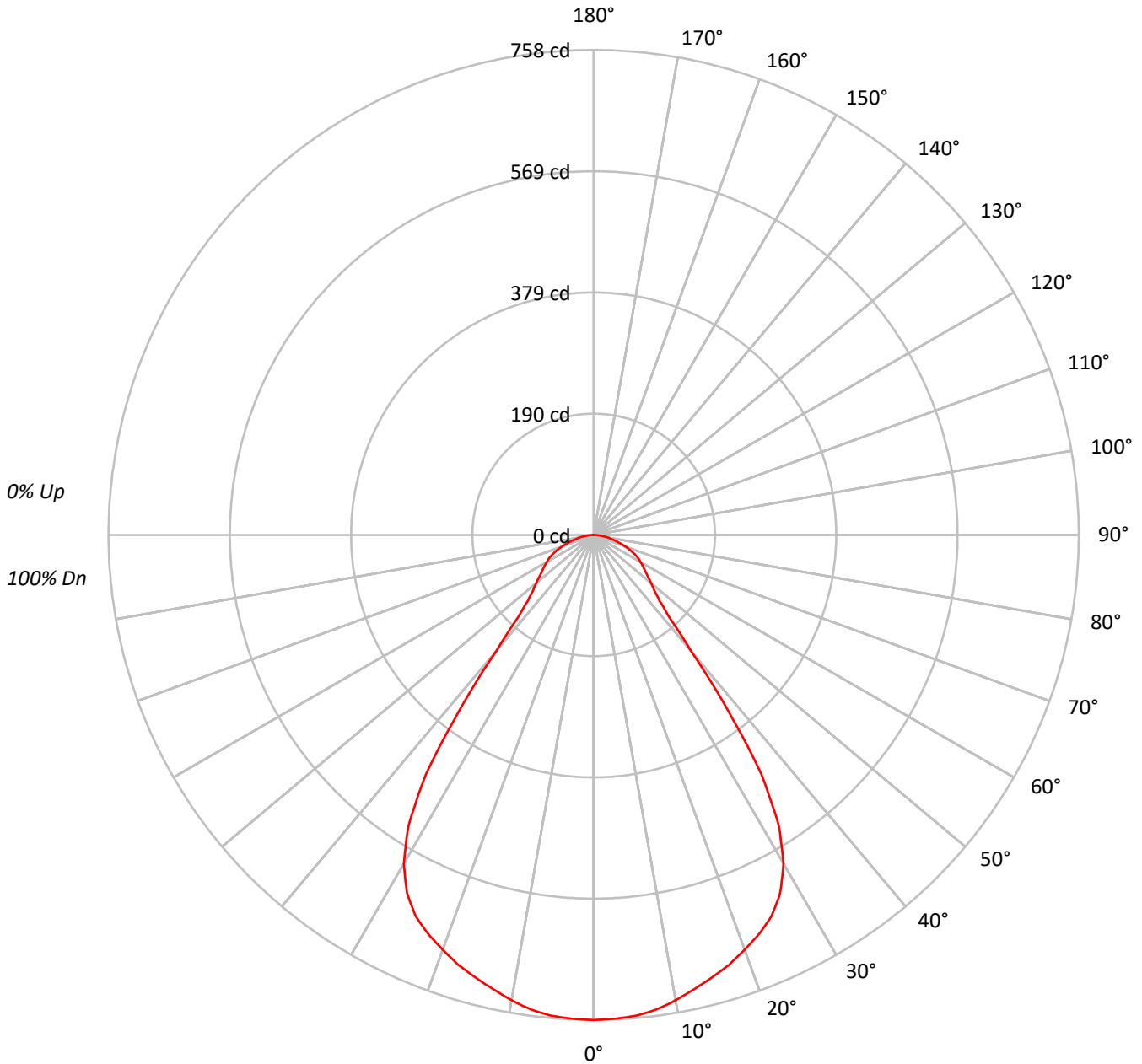
Lumens per Lamp: N/A
Luminaire Lumens: 1169.6 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P593544
CATALOG NUMBER: HCC8W10D010BZ-HM80520950-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P593544

CATALOG NUMBER: HCC8W10D010BZ-HM80520950-81WDW

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57		
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52		
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23383
5°	23355
10°	23124
15°	22848
20°	22633
25°	22378
30°	21118
35°	17196
40°	9500
45°	6341
50°	5622
55°	5279
60°	5211
65°	5166
70°	4670
75°	4170
80°	3658
85°	3220



TEST NUMBER: P593544
 CATALOG NUMBER: HCC8W10D010BZ-HM80520950-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	6.1
10°-20°	202.1	17.3
20°-30°	300.2	25.7
30°-40°	270.4	23.1
40°-50°	119.8	10.2
50°-60°	88.8	7.6
60°-70°	69.0	5.9
70°-80°	37.4	3.2
80°-90°	10.2	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°	573.8	49.1
0°-40°	844.2	72.2
0°-60°	1052.9	90.0
0°-90°	1169.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	758	
5°	754	72
15°	716	202
25°	658	300
35°	457	270
45°	145	120
55°	98	89
65°	71	69
75°	35	37
85°	9	10
90°	0	



TEST NUMBER: P593544
CATALOG NUMBER: HCC8W10D010BZ-HM80520950-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	758.3
2.5°	756.8
5°	754.5
7.5°	748.4
10°	738.5
12.5°	727.1
15°	715.7
17.5°	704.3
20°	689.7
22.5°	675.3
25°	657.7
27.5°	631.2
30°	593.1
32.5°	538.3
35°	456.8
37.5°	341.1
40°	236.0
42.5°	174.3
45°	145.4
47.5°	128.6
50°	117.2
52.5°	106.6
55°	98.2
57.5°	91.4
60°	84.5
62.5°	78.4
65°	70.8
67.5°	61.7
70°	51.8
72.5°	43.4
75°	35.0
77.5°	27.4
80°	20.6
82.5°	14.4
85°	9.1
87.5°	3.8
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)