

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: P593759

Luminaire Tested: **HCC8W45D010MW-HM82555850-81MDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010MW-HM82555850-81MDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

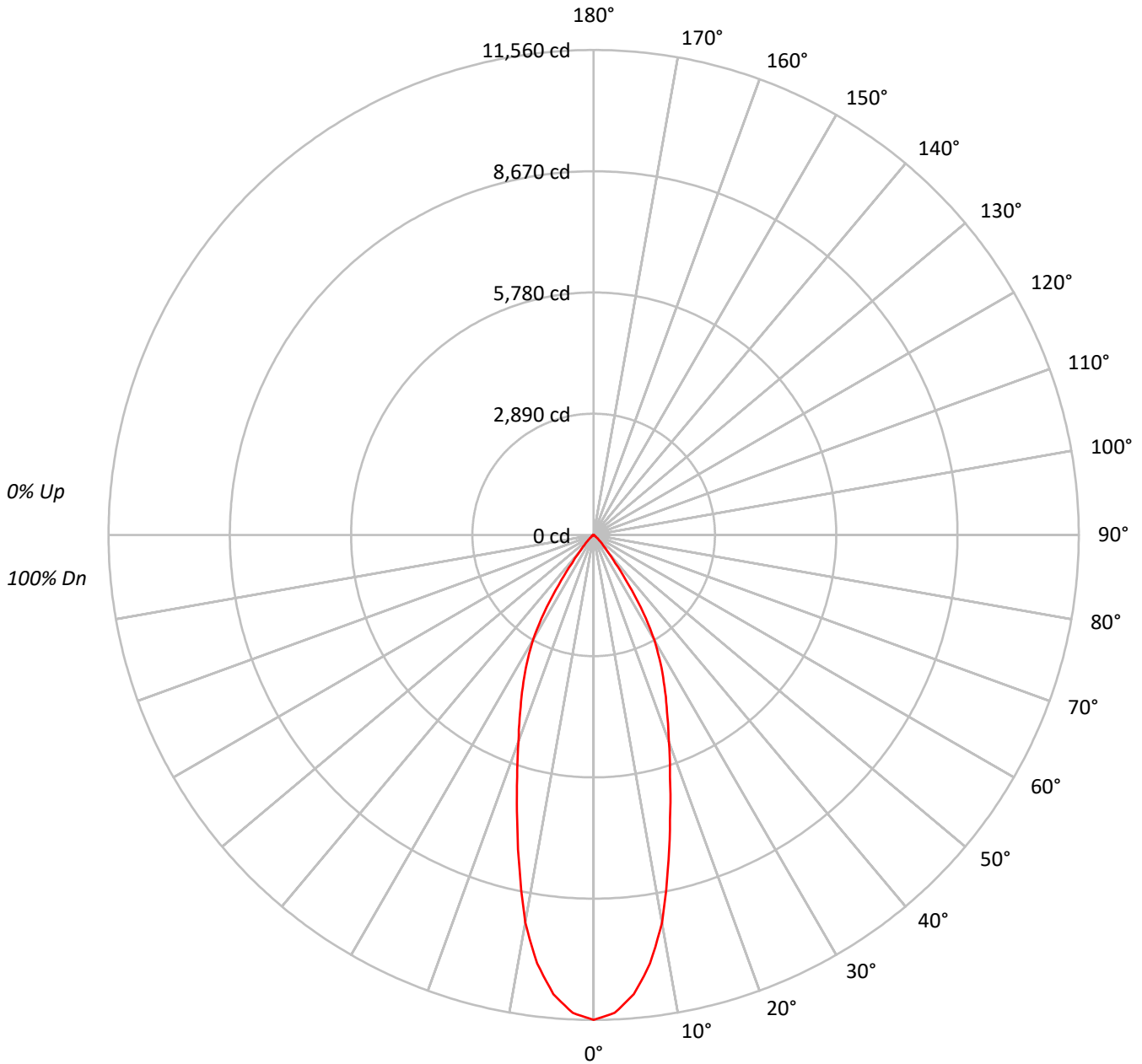
Lumens per Lamp: N/A
Luminaire Lumens: 5966.2 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P593759
CATALOG NUMBER: HCC8W45D010MW-HM82555850-81MDC

Luminous Intensity Polar Plot





TEST NUMBER: P593759
 CATALOG NUMBER: HCC8W45D010MW-HM82555850-81MDC

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	356480
5°	340127
10°	293653
15°	224545
20°	171808
25°	135926
30°	102676
35°	54622
40°	20807
45°	9986
50°	4250
55°	1785
60°	678
65°	540
70°	325
75°	0
80°	0
85°	0



TEST NUMBER: P593759
 CATALOG NUMBER: HCC8W45D010MW-HM82555850-81MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.4	16.7
10°-20°	1963.6	32.9
20°-30°	1828.7	30.7
30°-40°	943.6	15.8
40°-50°	192.2	3.2
50°-60°	32.9	0.6
60°-70°	6.3	0.1
70°-80°	1.4	0.0
80°-90°	0.0	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°	4789.8	80.3
0°-40°	5733.4	96.1
0°-60°	5958.5	99.9
0°-90°	5966.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5966.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11560	
5°	10988	997
15°	7034	1964
25°	3995	1829
35°	1451	944
45°	229	192
55°	33	33
65°	7	6
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P593759
CATALOG NUMBER: HCC8W45D010MW-HM82555850-81MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	11560.4
2.5°	11405.3
5°	10988.1
7.5°	10301.3
10°	9378.3
12.5°	8167.2
15°	7033.7
17.5°	6051.5
20°	5235.6
22.5°	4570.9
25°	3995.0
27.5°	3448.5
30°	2883.6
32.5°	2211.7
35°	1451.0
37.5°	841.9
40°	516.9
42.5°	339.7
45°	229.0
47.5°	144.0
50°	88.6
52.5°	51.7
55°	33.2
57.5°	14.8
60°	11.0
62.5°	7.4
65°	7.4
67.5°	3.6
70°	3.6
72.5°	3.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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)