

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: P583986

Luminaire Tested: **HCC8W20D010MW-HM80520830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W20D010MW-HM80520830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

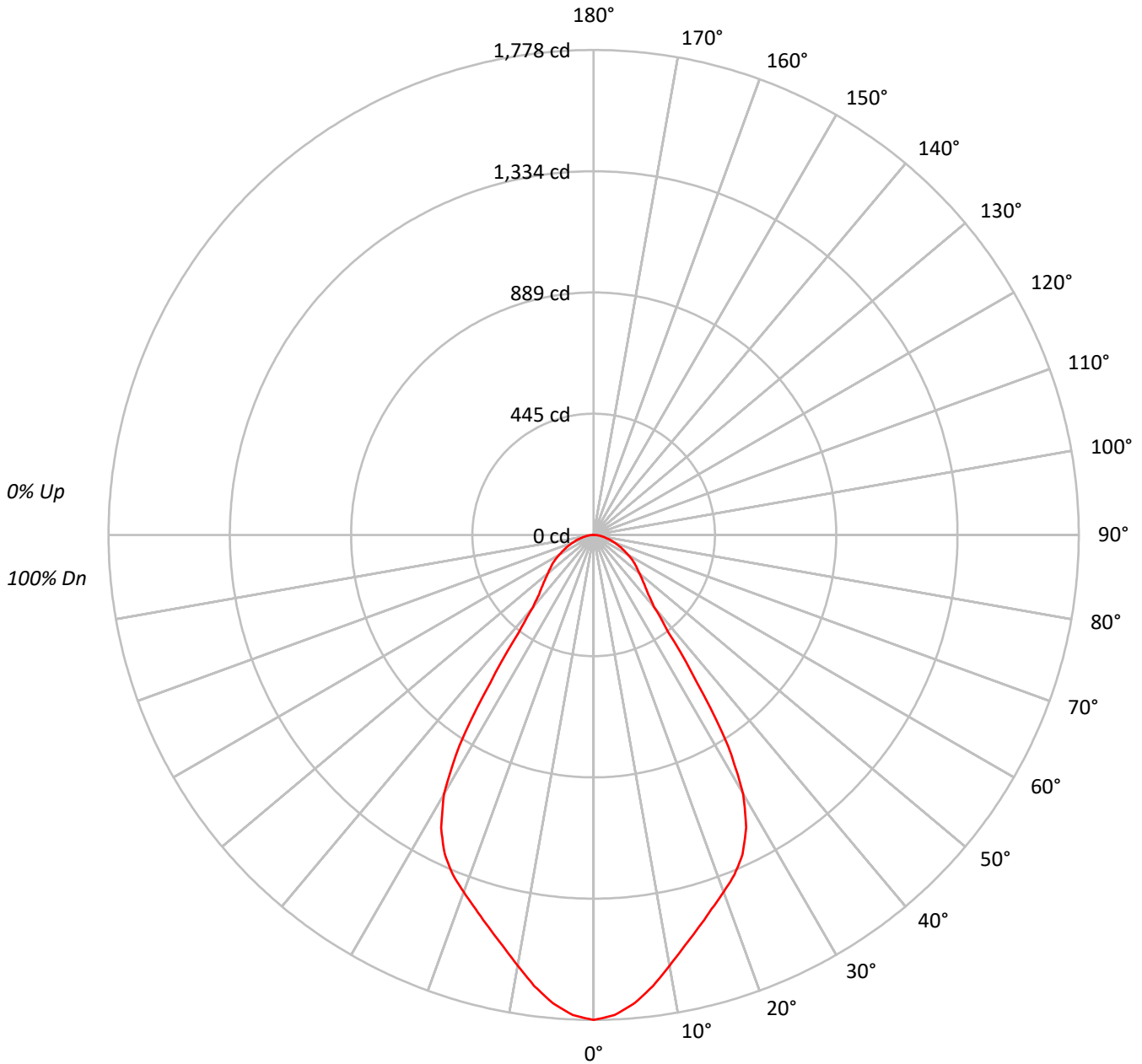
Lumens per Lamp: N/A
Luminaire Lumens: 2144.4 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: P583986
CATALOG NUMBER: HCC8W20D010MW-HM80520830-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P583986

CATALOG NUMBER: HCC8W20D010MW-HM80520830-81MDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65																			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54																			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50																			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54830
5°	53337
10°	50190
15°	47519
20°	45712
25°	43946
30°	39032
35°	24856
40°	13876
45°	11617
50°	10492
55°	9887
60°	9017
65°	8136
70°	7186
75°	6374
80°	5665
85°	5130



TEST NUMBER: P583986
 CATALOG NUMBER: HCC8W20D010MW-HM80520830-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	7.5
10°-20°	419.8	19.6
20°-30°	585.7	27.3
30°-40°	421.4	19.7
40°-50°	208.8	9.7
50°-60°	163.4	7.6
60°-70°	110.6	5.2
70°-80°	57.5	2.7
80°-90°	16.6	0.8
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°	1166.1	54.4
0°-40°	1587.5	74.0
0°-60°	1959.8	91.4
0°-90°	2144.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1778	
5°	1723	161
15°	1488	420
25°	1292	586
35°	660	421
45°	266	209
55°	184	163
65°	112	111
75°	54	57
85°	14	17
90°	0	



TEST NUMBER: P583986
CATALOG NUMBER: HCC8W20D010MW-HM80520830-81MDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1778.1
2.5°	1762.2
5°	1723.1
7.5°	1668.0
10°	1602.9
12.5°	1542.2
15°	1488.5
17.5°	1437.9
20°	1393.0
22.5°	1348.1
25°	1291.6
27.5°	1210.5
30°	1096.2
32.5°	916.5
35°	660.3
37.5°	450.3
40°	344.7
42.5°	296.8
45°	266.4
47.5°	240.4
50°	218.7
52.5°	199.9
55°	183.9
57.5°	165.1
60°	146.2
62.5°	127.4
65°	111.5
67.5°	95.6
70°	79.7
72.5°	66.7
75°	53.5
77.5°	42.0
80°	31.9
82.5°	23.2
85°	14.5
87.5°	7.2
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)