

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: P592662

Luminaire Tested: **HCC4W20D010MB-HM40525850-41MDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010MB-HM40525850-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

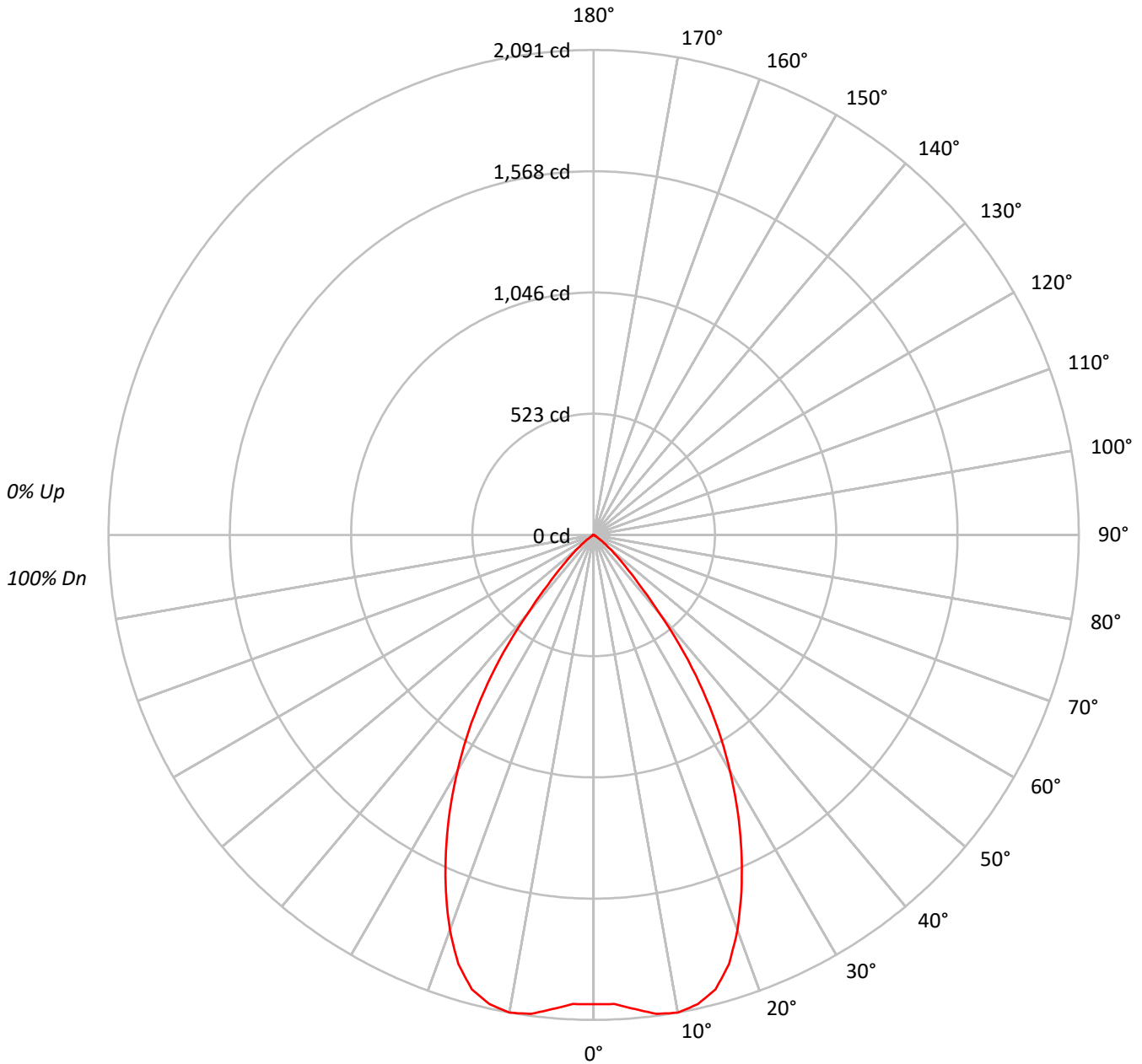
Lumens per Lamp: N/A
Luminaire Lumens: 2154.3 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592662
CATALOG NUMBER: HCC4W20D010MB-HM40525850-41MDC

Luminous Intensity Polar Plot





TEST NUMBER: P592662
 CATALOG NUMBER: HCC4W20D010MB-HM40525850-41MDC

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74																			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69																			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64																			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60																			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56																			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52																			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	249541
5°	254109
10°	261945
15°	259046
20°	237886
25°	205207
30°	167238
35°	123820
40°	71024
45°	34329
50°	16349
55°	5699
60°	2072
65°	1226
70°	1010
75°	667
80°	0
85°	0



TEST NUMBER: P592662
 CATALOG NUMBER: HCC4W20D010MB-HM40525850-41MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	9.2
10°-20°	562.4	26.1
20°-30°	686.8	31.9
30°-40°	504.9	23.4
40°-50°	167.3	7.8
50°-60°	29.5	1.4
60°-70°	4.5	0.2
70°-80°	1.5	0.1
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°	1446.6	67.1
0°-40°	1951.5	90.6
0°-60°	2148.3	99.7
0°-90°	2154.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2023	
5°	2052	197
15°	2029	562
25°	1508	687
35°	822	505
45°	197	167
55°	26	30
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P592662
CATALOG NUMBER: HCC4W20D010MB-HM40525850-41MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2023.1
2.5°	2024.5
5°	2052.3
7.5°	2083.1
10°	2091.4
12.5°	2071.9
15°	2028.6
17.5°	1939.2
20°	1812.3
22.5°	1664.2
25°	1507.8
27.5°	1344.5
30°	1174.2
32.5°	1003.9
35°	822.3
37.5°	638.1
40°	441.1
42.5°	291.8
45°	196.8
47.5°	131.2
50°	85.2
52.5°	50.2
55°	26.5
57.5°	11.1
60°	8.4
62.5°	5.6
65°	4.2
67.5°	2.8
70°	2.8
72.5°	1.4
75°	1.4
77.5°	1.4
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)