

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: P580096

Luminaire Tested: **HCC4W20D010BZ-HM40525940-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010BZ-HM40525940-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

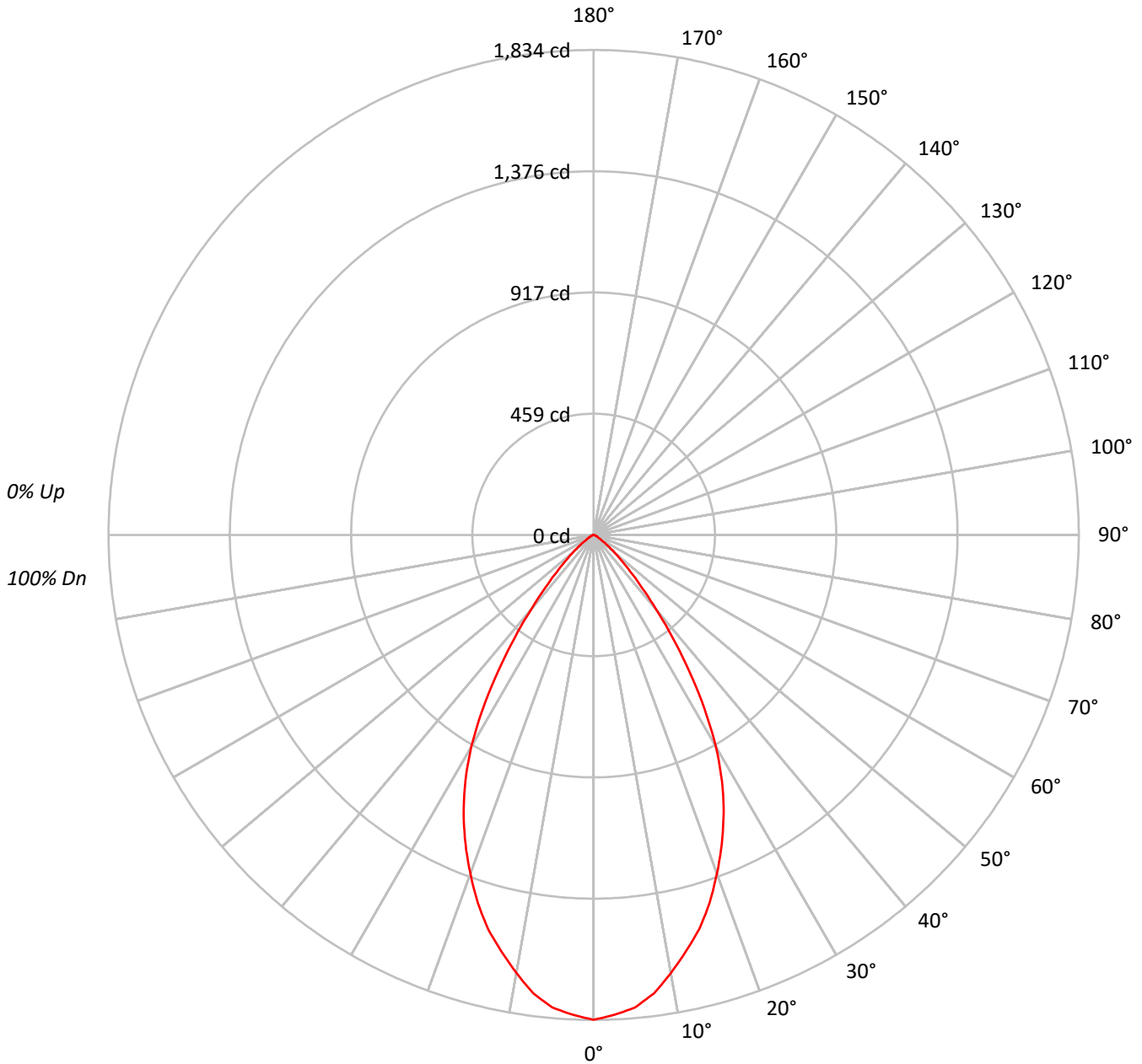
Lumens per Lamp: N/A
Luminaire Lumens: 1744.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580096
CATALOG NUMBER: HCC4W20D010BZ-HM40525940-41NDH

Luminous Intensity Polar Plot



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



TEST NUMBER: P580096

CATALOG NUMBER: HCC4W20D010BZ-HM40525940-41NDH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20		
RC	80				70				50				30				10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	226191
5°	222090
10°	210643
15°	196972
20°	178897
25°	158294
30°	131674
35°	94939
40°	59270
45°	34172
50°	19285
55°	9182
60°	5255
65°	4028
70°	2741
75°	1811
80°	1776
85°	1840



TEST NUMBER: P580096
 CATALOG NUMBER: HCC4W20D010BZ-HM40525940-41NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	9.6
10°-20°	430.3	24.7
20°-30°	529.2	30.3
30°-40°	393.0	22.5
40°-50°	159.8	9.2
50°-60°	44.2	2.5
60°-70°	13.8	0.8
70°-80°	4.6	0.3
80°-90°	1.4	0.1
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°	1127.2	64.6
0°-40°	1520.2	87.2
0°-60°	1724.1	98.9
0°-90°	1744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1834	
5°	1794	168
15°	1542	430
25°	1163	529
35°	630	393
45°	196	160
55°	43	44
65°	14	14
75°	4	5
85°	1	1
90°	0	



TEST NUMBER: P580096
CATALOG NUMBER: HCC4W20D010BZ-HM40525940-41NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1833.8
2.5°	1816.3
5°	1793.7
7.5°	1748.5
10°	1681.8
12.5°	1612.8
15°	1542.5
17.5°	1458.3
20°	1362.9
22.5°	1266.1
25°	1163.1
27.5°	1051.3
30°	924.5
32.5°	780.0
35°	630.5
37.5°	489.9
40°	368.1
42.5°	268.7
45°	195.9
47.5°	140.6
50°	100.5
52.5°	69.0
55°	42.7
57.5°	27.6
60°	21.3
62.5°	17.5
65°	13.8
67.5°	10.1
70°	7.6
72.5°	6.3
75°	3.8
77.5°	2.5
80°	2.5
82.5°	1.3
85°	1.3
87.5°	1.3
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)