

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: P579993

Luminaire Tested: **HCC4W20D010BZ-HM40525830-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579993
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-HM40525830-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

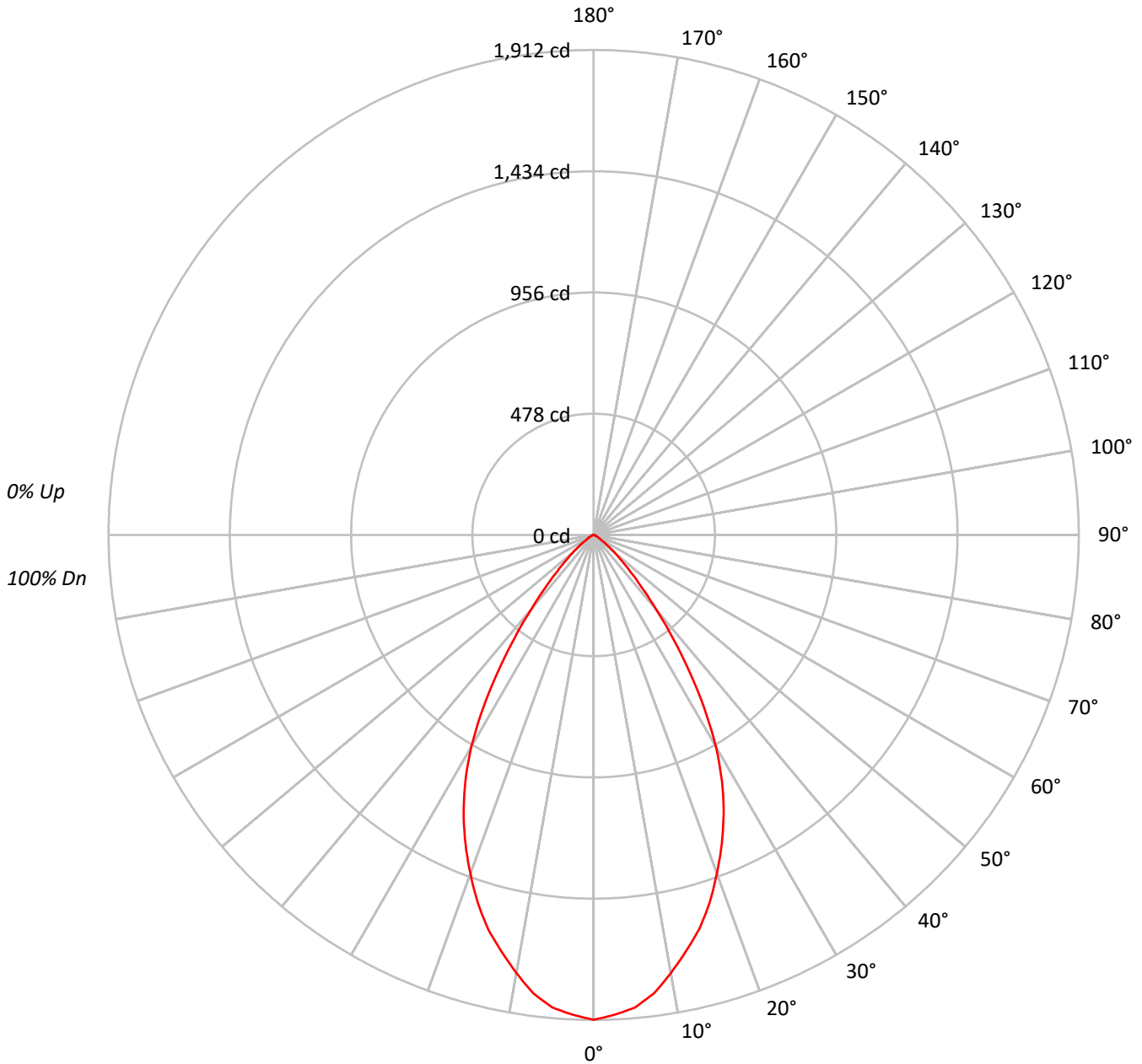
Lumens per Lamp: N/A
Luminaire Lumens: 1818.2 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579993
CATALOG NUMBER: HCC4W20D010BZ-HM40525830-41NDH

Luminous Intensity Polar Plot





TEST NUMBER: P579993
 CATALOG NUMBER: HCC4W20D010BZ-HM40525830-41NDH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	235812
5°	231537
10°	219611
15°	205349
20°	186497
25°	165031
30°	137271
35°	98974
40°	61782
45°	35637
50°	20091
55°	9570
60°	5501
65°	4232
70°	2849
75°	1859
80°	1847
85°	1840



TEST NUMBER: P579993
 CATALOG NUMBER: HCC4W20D010BZ-HM40525830-41NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	9.6
10°-20°	448.6	24.7
20°-30°	551.7	30.3
30°-40°	409.8	22.5
40°-50°	166.6	9.2
50°-60°	46.1	2.5
60°-70°	14.4	0.8
70°-80°	4.8	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°	1175.1	64.6
0°-40°	1584.9	87.2
0°-60°	1797.6	98.9
0°-90°	1818.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1912	
5°	1870	175
15°	1608	449
25°	1213	552
35°	657	410
45°	204	167
55°	44	46
65°	14	14
75°	4	5
85°	1	1
90°	0	



TEST NUMBER: P579993
CATALOG NUMBER: HCC4W20D010BZ-HM40525830-41NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1911.8
2.5°	1893.6
5°	1870.0
7.5°	1822.8
10°	1753.4
12.5°	1681.4
15°	1608.1
17.5°	1520.3
20°	1420.8
22.5°	1320.0
25°	1212.6
27.5°	1096.1
30°	963.8
32.5°	813.2
35°	657.3
37.5°	510.8
40°	383.7
42.5°	280.2
45°	204.3
47.5°	146.7
50°	104.7
52.5°	72.0
55°	44.5
57.5°	28.8
60°	22.3
62.5°	18.4
65°	14.5
67.5°	10.4
70°	7.9
72.5°	6.5
75°	3.9
77.5°	2.6
80°	2.6
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)