

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: P579973

Luminaire Tested: **HCC4W20D010BZ-HM40525827-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010BZ-HM40525827-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

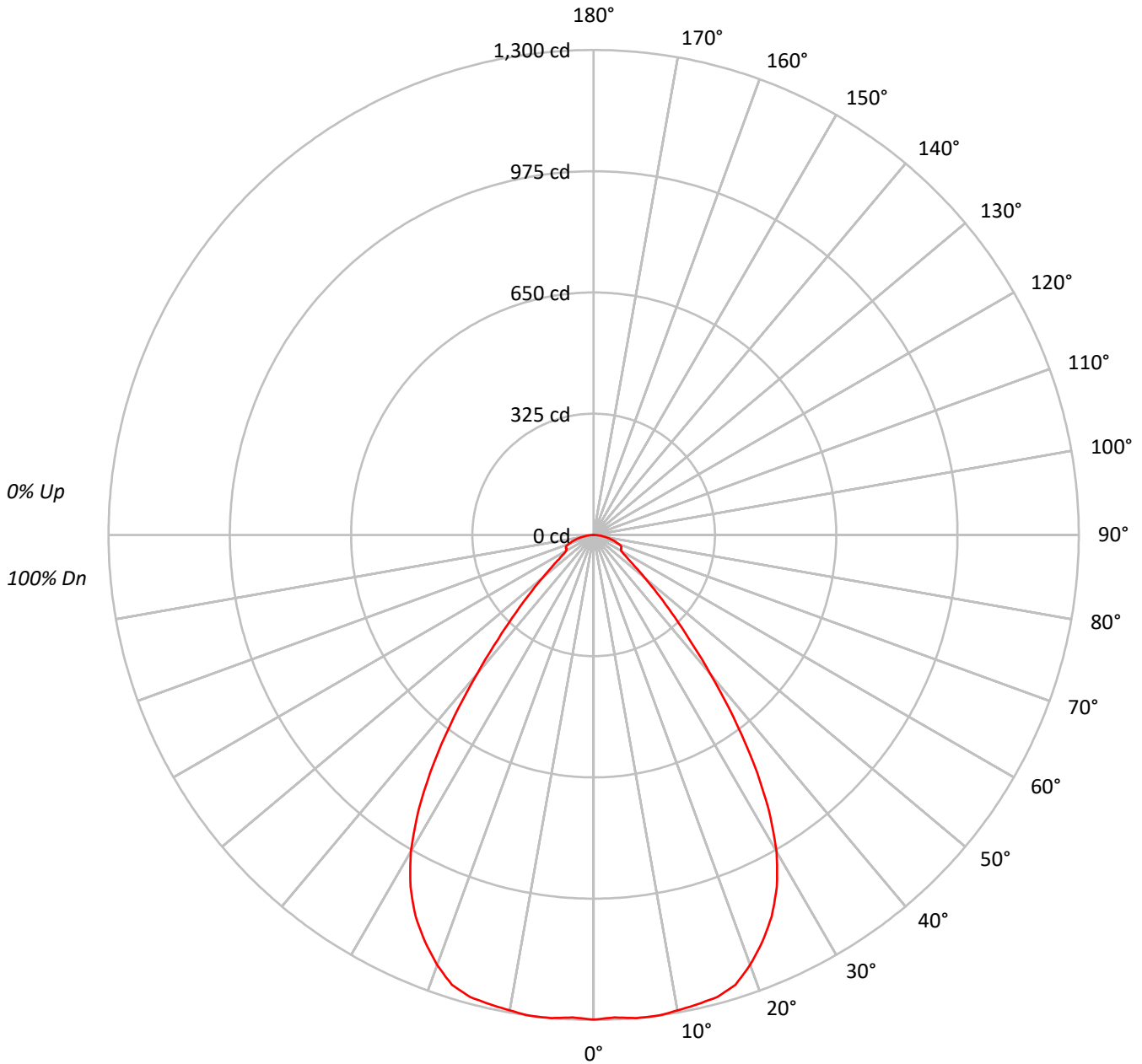
Lumens per Lamp: N/A
Luminaire Lumens: 1951.9 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): 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: P579973
CATALOG NUMBER: HCC4W20D010BZ-HM40525827-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P579973
 CATALOG NUMBER: HCC4W20D010BZ-HM40525827-41WDWB

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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	160251
5°	161011
10°	162122
15°	163733
20°	161006
25°	153599
30°	139564
35°	112572
40°	78109
45°	51284
50°	34349
55°	24451
60°	20870
65°	23991
70°	25714
75°	24782
80°	22304
85°	20662



TEST NUMBER: P579973
 CATALOG NUMBER: HCC4W20D010BZ-HM40525827-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	6.3
10°-20°	360.2	18.5
20°-30°	514.6	26.4
30°-40°	459.7	23.6
40°-50°	235.8	12.1
50°-60°	107.2	5.5
60°-70°	79.9	4.1
70°-80°	54.4	2.8
80°-90°	16.1	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°	998.8	51.2
0°-40°	1458.5	74.7
0°-60°	1801.5	92.3
0°-90°	1951.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1299	
5°	1300	124
15°	1282	360
25°	1129	515
35°	748	460
45°	294	236
55°	114	107
65°	82	80
75°	52	54
85°	15	16
90°	0	



TEST NUMBER: P579973
CATALOG NUMBER: HCC4W20D010BZ-HM40525827-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1299.2
2.5°	1294.4
5°	1300.4
7.5°	1300.4
10°	1294.4
12.5°	1288.3
15°	1282.2
17.5°	1264.1
20°	1226.6
22.5°	1180.6
25°	1128.6
27.5°	1063.3
30°	979.9
32.5°	873.3
35°	747.6
37.5°	613.3
40°	485.1
42.5°	378.6
45°	294.0
47.5°	229.9
50°	179.0
52.5°	140.3
55°	113.7
57.5°	95.5
60°	84.6
62.5°	82.2
65°	82.2
67.5°	79.8
70°	71.3
72.5°	61.7
75°	52.0
77.5°	41.2
80°	31.4
82.5°	22.9
85°	14.6
87.5°	6.1
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)