

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: P592685

Luminaire Tested: **HCC4W20D010BZ-HM40525950-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010BZ-HM40525950-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

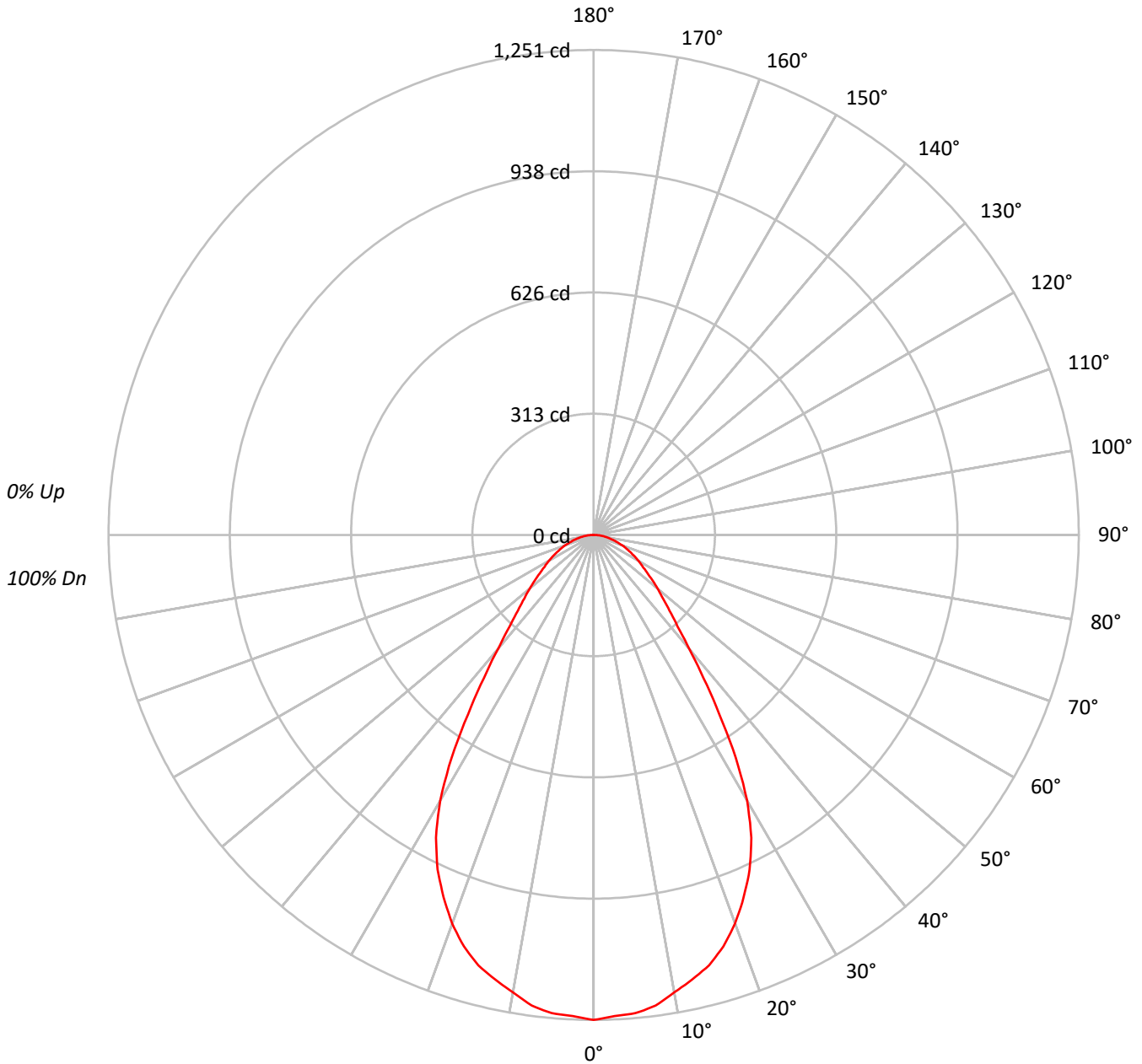
Lumens per Lamp: N/A
Luminaire Lumens: 1776.7 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592685
CATALOG NUMBER: HCC4W20D010BZ-HM40525950-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P592685

CATALOG NUMBER: HCC4W20D010BZ-HM40525950-41PSMDW

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	154318
5°	153347
10°	150098
15°	146775
20°	139991
25°	129578
30°	112703
35°	85106
40°	61685
45°	48197
50°	41218
55°	35676
60°	32859
65°	30062
70°	28094
75°	25735
80°	24151
85°	23068



TEST NUMBER: P592685
 CATALOG NUMBER: HCC4W20D010BZ-HM40525950-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	6.6
10°-20°	322.0	18.1
20°-30°	432.9	24.4
30°-40°	356.0	20.0
40°-50°	218.6	12.3
50°-60°	151.3	8.5
60°-70°	103.1	5.8
70°-80°	57.5	3.2
80°-90°	18.3	1.0
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°	871.9	49.1
0°-40°	1227.8	69.1
0°-60°	1597.8	89.9
0°-90°	1776.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1251	
5°	1238	117
15°	1149	322
25°	952	433
35°	565	356
45°	276	219
55°	166	151
65°	103	103
75°	54	57
85°	16	18
90°	0	



TEST NUMBER: P592685
CATALOG NUMBER: HCC4W20D010BZ-HM40525950-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1251.1
2.5°	1242.3
5°	1238.5
7.5°	1224.8
10°	1198.4
12.5°	1174.5
15°	1149.4
17.5°	1112.9
20°	1066.5
22.5°	1011.2
25°	952.1
27.5°	880.6
30°	791.3
32.5°	682.1
35°	565.2
37.5°	464.8
40°	383.1
42.5°	320.4
45°	276.3
47.5°	242.5
50°	214.8
52.5°	189.7
55°	165.9
57.5°	148.2
60°	133.2
62.5°	118.0
65°	103.0
67.5°	90.5
70°	77.9
72.5°	65.3
75°	54.0
77.5°	42.7
80°	34.0
82.5°	25.1
85°	16.3
87.5°	8.8
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)