

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: P592683

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010BZ-HM40525950-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

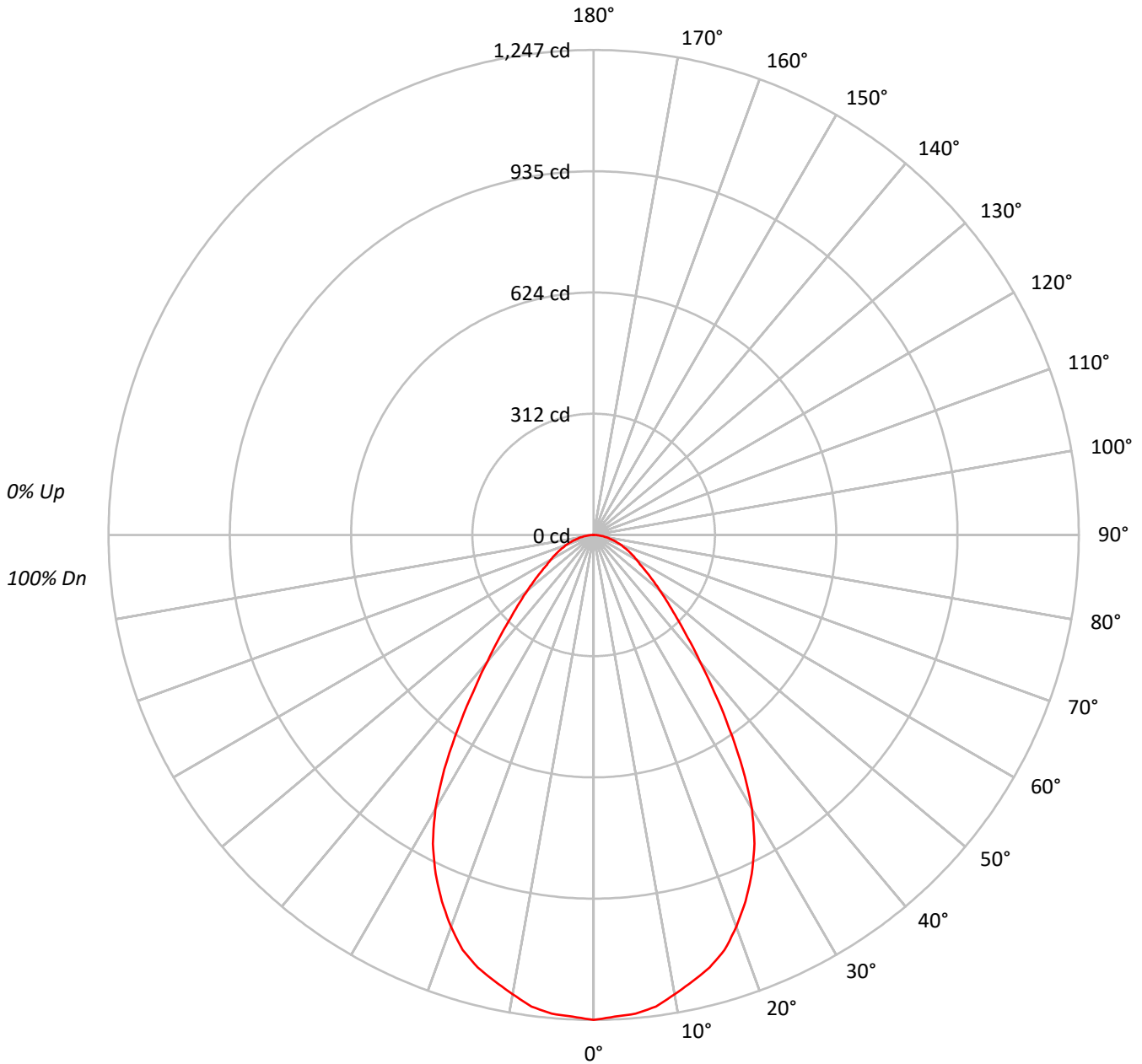
Lumens per Lamp: N/A
Luminaire Lumens: 1814.3 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592683
CATALOG NUMBER: HCC4W20D010BZ-HM40525950-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P592683

CATALOG NUMBER: HCC4W20D010BZ-HM40525950-41MDW

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44																			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	153812
5°	153013
10°	150210
15°	147043
20°	140752
25°	130871
30°	115836
35°	91430
40°	68400
45°	52628
50°	42696
55°	35418
60°	31330
65°	28982
70°	26759
75°	24543
80°	22304
85°	17832



TEST NUMBER: P592683
 CATALOG NUMBER: HCC4W20D010BZ-HM40525950-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	6.4
10°-20°	322.9	17.8
20°-30°	438.5	24.2
30°-40°	379.8	20.9
40°-50°	238.5	13.1
50°-60°	150.0	8.3
60°-70°	98.5	5.4
70°-80°	54.4	3.0
80°-90°	14.9	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°	878.2	48.4
0°-40°	1258.1	69.3
0°-60°	1646.5	90.8
0°-90°	1814.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1814.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1247	
5°	1236	117
15°	1152	323
25°	962	438
35°	607	380
45°	302	238
55°	165	150
65°	99	99
75°	52	54
85°	13	15
90°	0	



TEST NUMBER: P592683
CATALOG NUMBER: HCC4W20D010BZ-HM40525950-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1247.0
2.5°	1239.6
5°	1235.8
7.5°	1223.2
10°	1199.3
12.5°	1175.4
15°	1151.5
17.5°	1118.8
20°	1072.3
22.5°	1019.6
25°	961.6
27.5°	895.1
30°	813.3
32.5°	714.0
35°	607.2
37.5°	509.2
40°	424.8
42.5°	358.3
45°	301.7
47.5°	259.0
50°	222.5
52.5°	191.1
55°	164.7
57.5°	142.0
60°	127.0
62.5°	113.1
65°	99.3
67.5°	85.5
70°	74.2
72.5°	61.6
75°	51.5
77.5°	40.3
80°	31.4
82.5°	21.3
85°	12.6
87.5°	5.0
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)