

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: P580175

Luminaire Tested: **HCC4W25D010BZ-HM40525840-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W25D010BZ-HM40525840-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

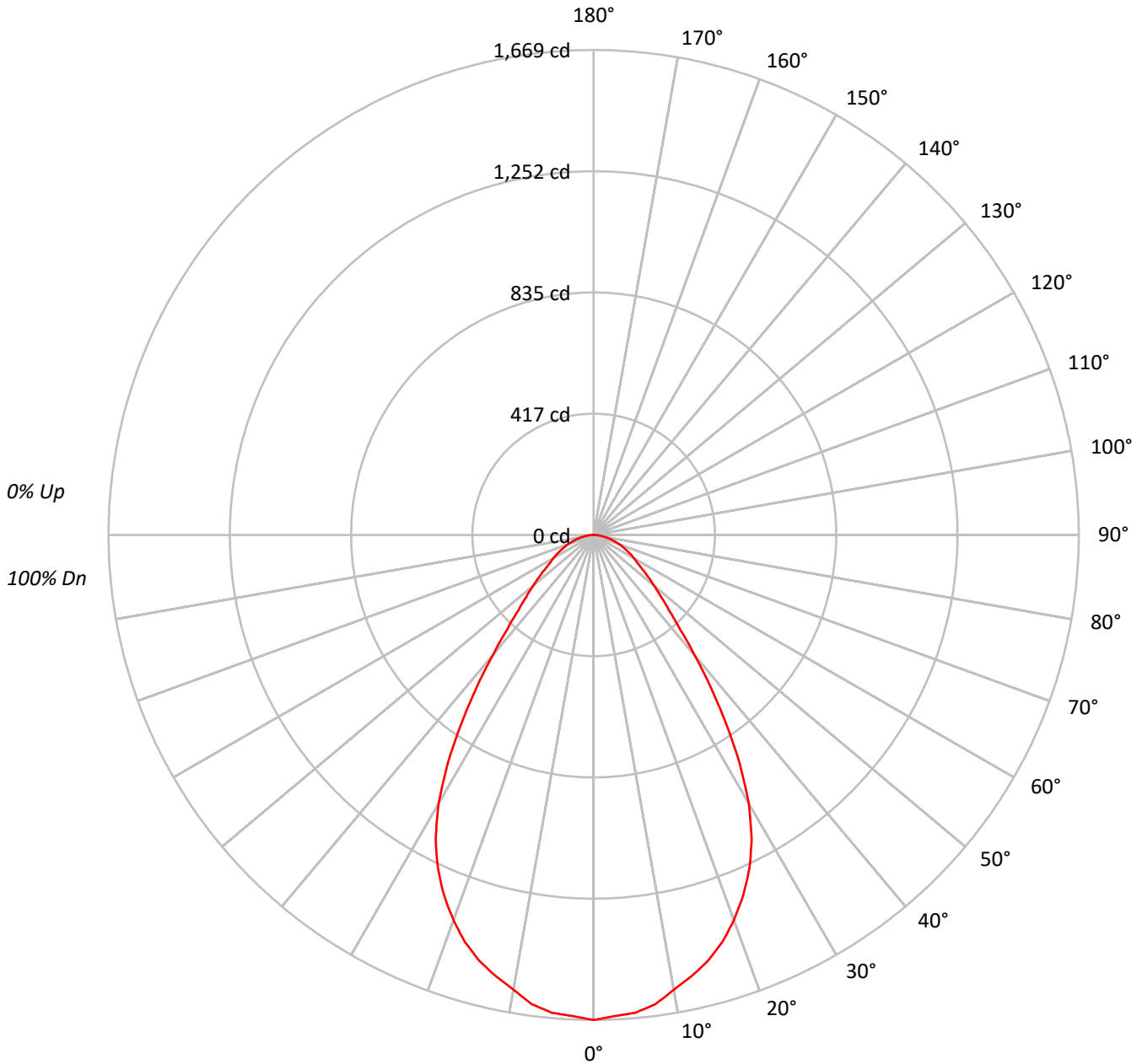
Lumens per Lamp: N/A
Luminaire Lumens: 2343.6 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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: P580175
CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P580175
 CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41NDW

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	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		98	96	94		94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73	69	65	64
5	85	74	67	61	83	73	66	61	71	65	60		69	64	60		68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63	58	54	52
7	75	63	56	51	73	62	56	51	61	55	50		60	54	50		59	53	50	48
8	70	59	52	47	69	58	51	46	57	51	46		56	50	46		55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43		52	47	43		51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	205901
5°	204372
10°	199045
15°	193805
20°	185118
25°	172476
30°	151870
35°	119784
40°	86949
45°	63879
50°	51964
55°	43590
60°	39495
65°	36278
70°	33792
75°	30834
80°	27845
85°	24059



TEST NUMBER: P580175
 CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	6.6
10°-20°	425.7	18.2
20°-30°	577.1	24.6
30°-40°	495.2	21.1
40°-50°	292.4	12.5
50°-60°	185.3	7.9
60°-70°	124.5	5.3
70°-80°	68.7	2.9
80°-90°	19.2	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°	1158.4	49.4
0°-40°	1653.6	70.6
0°-60°	2131.2	90.9
0°-90°	2343.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1669	
5°	1651	156
15°	1518	426
25°	1267	577
35°	796	495
45°	366	292
55°	203	185
65°	124	124
75°	65	69
85°	17	19
90°	0	



TEST NUMBER: P580175
CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1669.3
2.5°	1657.4
5°	1650.6
7.5°	1628.5
10°	1589.2
12.5°	1555.2
15°	1517.7
17.5°	1470.0
20°	1410.3
22.5°	1344.0
25°	1267.3
27.5°	1177.0
30°	1066.3
32.5°	935.2
35°	795.5
37.5°	660.9
40°	540.0
42.5°	439.5
45°	366.2
47.5°	313.4
50°	270.8
52.5°	235.1
55°	202.7
57.5°	177.1
60°	160.1
62.5°	143.0
65°	124.3
67.5°	109.1
70°	93.7
72.5°	78.4
75°	64.7
77.5°	51.1
80°	39.2
82.5°	27.2
85°	17.0
87.5°	6.8
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)