

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: P580454

Luminaire Tested: **HCC4W35D010BZ-HM43040840-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580454
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: HCC4W35D010BZ-HM43040840-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

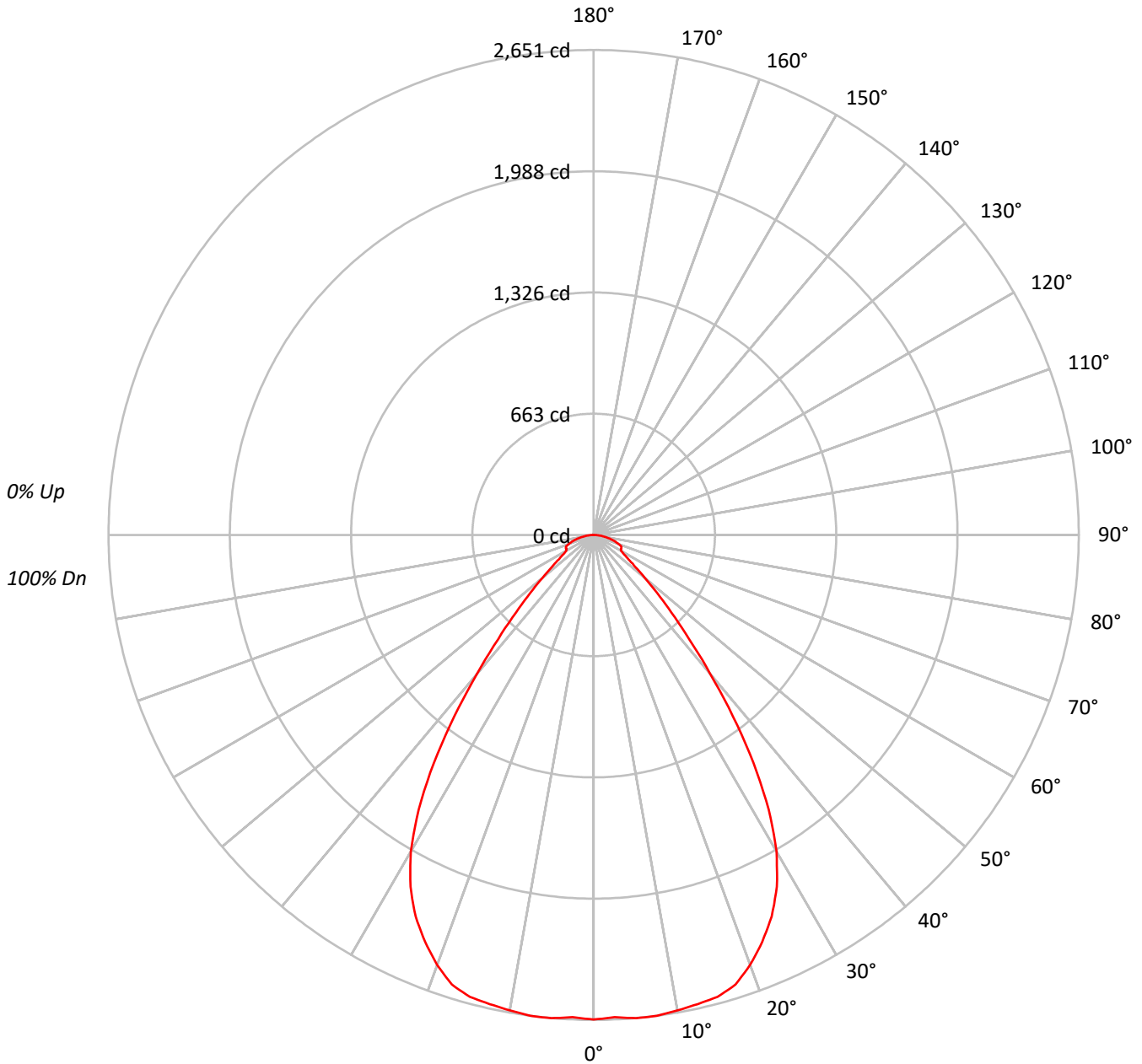
Lumens per Lamp: N/A
Luminaire Lumens: 3980.1 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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: P580454
CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580454
 CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WDWB

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	326730
5°	328288
10°	330556
15°	333850
20°	328285
25°	313186
30°	284541
35°	229525
40°	159245
45°	104540
50°	70060
55°	49869
60°	42579
65°	48945
70°	52509
75°	50564
80°	45602
85°	41891



TEST NUMBER: P580454
 CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	6.3
10°-20°	734.4	18.5
20°-30°	1049.3	26.4
30°-40°	937.4	23.6
40°-50°	480.8	12.1
50°-60°	218.6	5.5
60°-70°	163.0	4.1
70°-80°	110.9	2.8
80°-90°	32.9	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°	2036.5	51.2
0°-40°	2973.9	74.7
0°-60°	3673.2	92.3
0°-90°	3980.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3980.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2649	
5°	2651	253
15°	2614	734
25°	2301	1049
35°	1524	937
45°	599	481
55°	232	219
65°	168	163
75°	106	111
85°	30	33
90°	0	



TEST NUMBER: P580454
CATALOG NUMBER: HCC4W35D010BZ-HM43040840-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2648.9
2.5°	2639.2
5°	2651.4
7.5°	2651.4
10°	2639.2
12.5°	2626.8
15°	2614.4
17.5°	2577.4
20°	2501.0
22.5°	2407.3
25°	2301.2
27.5°	2168.0
30°	1997.8
32.5°	1780.8
35°	1524.3
37.5°	1250.4
40°	989.0
42.5°	772.0
45°	599.3
47.5°	468.6
50°	365.1
52.5°	286.1
55°	231.9
57.5°	194.9
60°	172.6
62.5°	167.7
65°	167.7
67.5°	162.8
70°	145.6
72.5°	125.8
75°	106.1
77.5°	83.9
80°	64.2
82.5°	46.9
85°	29.6
87.5°	12.4
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)