

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: P580497

Luminaire Tested: **HCC4W35D010BZ-HM43040930-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010BZ-HM43040930-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

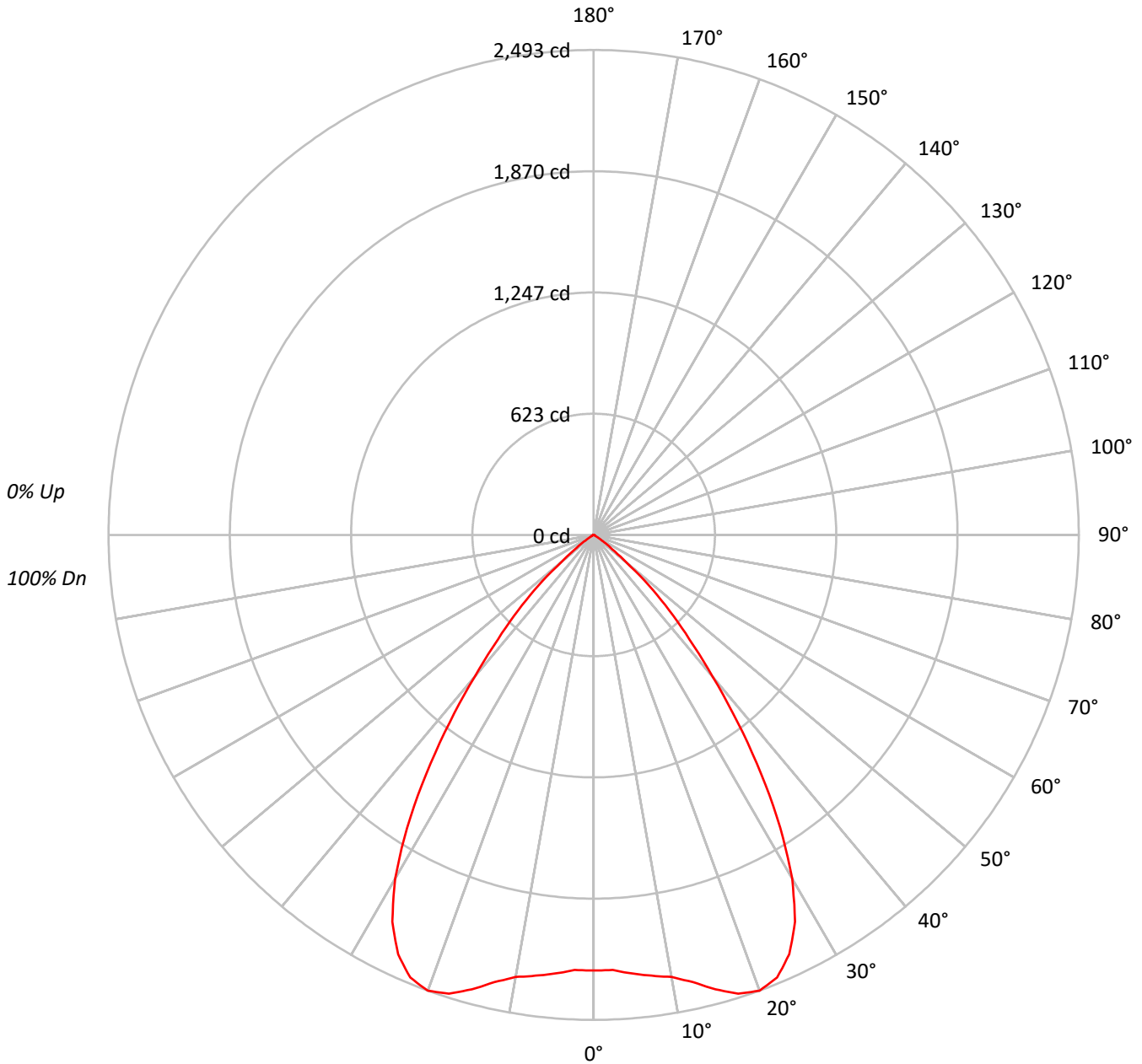
Lumens per Lamp: N/A
Luminaire Lumens: 3418.8 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580497
CATALOG NUMBER: HCC4W35D010BZ-HM43040930-41WDC

Luminous Intensity Polar Plot





TEST NUMBER: P580497

CATALOG NUMBER: HCC4W35D010BZ-HM43040930-41WDC

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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77																
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71																
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65																
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60			60																
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55			55																
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51			51																
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47																
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43			43																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	276171
5°	280235
10°	289023
15°	308822
20°	327235
25°	323666
30°	290480
35°	226077
40°	153159
45°	95626
50°	41391
55°	13871
60°	3503
65°	2364
70°	1443
75°	953
80°	1421
85°	0



TEST NUMBER: P580497
 CATALOG NUMBER: HCC4W35D010BZ-HM43040930-41WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	6.4
10°-20°	686.5	20.1
20°-30°	1075.7	31.5
30°-40°	928.4	27.2
40°-50°	426.9	12.5
50°-60°	72.5	2.1
60°-70°	8.2	0.2
70°-80°	2.9	0.1
80°-90°	0.3	0.0
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°	1979.6	57.9
0°-40°	2907.9	85.1
0°-60°	3407.4	99.7
0°-90°	3418.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3418.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2239	
5°	2263	217
15°	2418	687
25°	2378	1076
35°	1501	928
45°	548	427
55°	64	73
65°	8	8
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P580497
CATALOG NUMBER: HCC4W35D010BZ-HM43040930-41WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2239.0
2.5°	2239.0
5°	2263.3
7.5°	2285.4
10°	2307.6
12.5°	2354.0
15°	2418.4
17.5°	2472.8
20°	2493.0
22.5°	2462.8
25°	2378.2
27.5°	2241.0
30°	2039.5
32.5°	1785.6
35°	1501.4
37.5°	1215.3
40°	951.2
42.5°	727.6
45°	548.2
47.5°	385.0
50°	215.7
52.5°	118.9
55°	64.5
57.5°	32.3
60°	14.2
62.5°	10.1
65°	8.1
67.5°	6.1
70°	4.0
72.5°	4.0
75°	2.0
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)