

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: P580555

Luminaire Tested: **HCC4W40D010BZ-HM43040827-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W40D010BZ-HM43040827-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

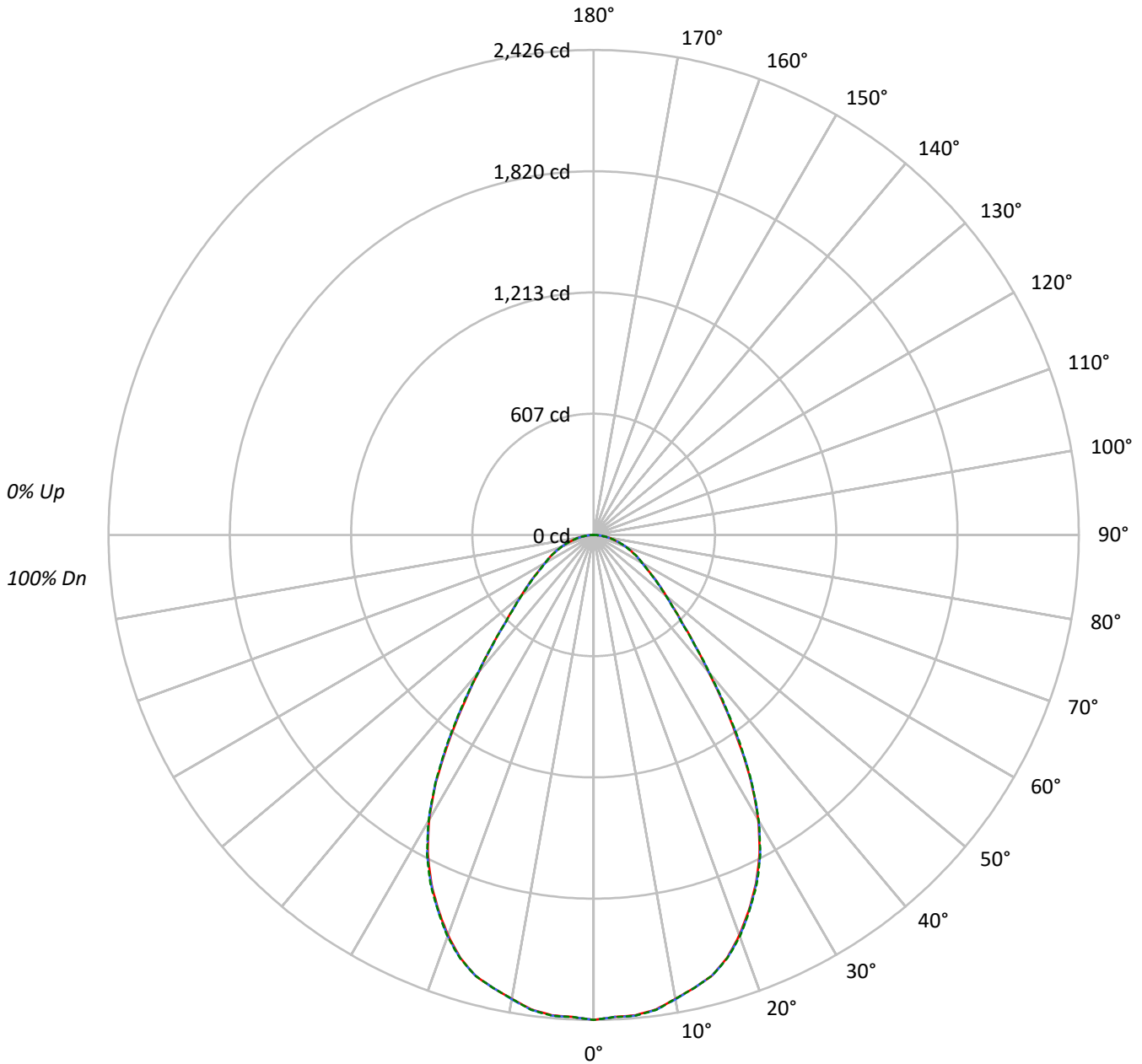
Lumens per Lamp: N/A
Luminaire Lumens: 3743.7 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P580555
CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41WDW

Luminous Intensity Polar Plot





TEST NUMBER: P580555

CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41WDW

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	299286	299286	299286
5°	298572	298869	298869
10°	295098	295411	295098
15°	291570	291570	291570
20°	279587	280257	280572
25°	261510	261864	262531
30°	234321	235033	235033
35°	190254	191760	192137
40°	143562	144383	144802
45°	109983	109546	109546
50°	90611	90132	90132
55°	77782	77245	77245
60°	69419	68778	68778
65°	65231	65231	65231
70°	60695	60695	60695
75°	55092	56235	55092
80°	51782	49935	51782
85°	42740	42740	42740



TEST NUMBER: P580555
 CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	6.1
10°-20°	639.8	17.1
20°-30°	879.1	23.5
30°-40°	790.4	21.1
40°-50°	499.4	13.3
50°-60°	326.1	8.7
60°-70°	220.9	5.9
70°-80°	124.3	3.3
80°-90°	34.9	0.9
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°	1747.5	46.7
0°-40°	2537.9	67.8
0°-60°	3363.5	89.8
0°-90°	3743.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2426	2426	2426	2426	2426	
5°	2411	2411	2414	2414	2414	228
15°	2283	2283	2283	2283	2283	639
25°	1922	1924	1924	1929	1929	877
35°	1264	1268	1274	1278	1276	787
45°	630	628	628	628	628	500
55°	362	362	359	362	359	327
65°	224	224	224	224	224	222
75°	116	118	118	118	116	124
85°	30	30	30	30	30	35
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P580555

CATALOG NUMBER: HCC4W40D010BZ-HM43040827-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2426.4	2426.4	2426.4	2426.4	2426.4
2.5°	2413.8	2413.8	2413.8	2413.8	2413.8
5°	2411.4	2411.4	2413.8	2413.8	2413.8
7.5°	2393.8	2396.2	2396.2	2396.2	2396.2
10°	2356.1	2356.1	2358.6	2358.6	2356.1
12.5°	2320.9	2320.9	2320.9	2323.4	2320.9
15°	2283.3	2283.3	2283.3	2283.3	2283.3
17.5°	2217.9	2220.5	2220.5	2220.5	2220.5
20°	2130.0	2135.1	2135.1	2137.5	2137.5
22.5°	2029.6	2032.0	2034.6	2037.1	2034.6
25°	1921.5	1924.1	1924.1	1929.0	1929.0
27.5°	1796.0	1798.4	1803.5	1803.5	1803.5
30°	1645.2	1647.8	1650.2	1650.2	1650.2
32.5°	1466.9	1466.9	1471.9	1474.5	1471.9
35°	1263.5	1268.4	1273.5	1278.5	1276.0
37.5°	1070.0	1075.0	1077.6	1077.6	1080.1
40°	891.6	896.7	896.7	901.7	899.3
42.5°	751.1	748.5	748.5	753.5	751.1
45°	630.5	628.0	628.0	628.0	628.0
47.5°	542.6	540.0	540.0	540.0	540.0
50°	472.2	469.7	469.7	469.7	469.7
52.5°	414.4	412.0	412.0	412.0	409.4
55°	361.7	361.7	359.2	361.7	359.2
57.5°	314.0	314.0	314.0	314.0	314.0
60°	281.4	278.8	278.8	278.8	278.8
62.5°	251.2	251.2	251.2	251.2	251.2
65°	223.5	223.5	223.5	223.5	223.5
67.5°	196.0	193.4	196.0	196.0	193.4
70°	168.3	165.8	168.3	168.3	168.3
72.5°	140.7	140.7	140.7	143.2	140.7
75°	115.6	118.0	118.0	118.0	115.6
77.5°	92.9	95.4	92.9	92.9	92.9
80°	72.9	70.3	70.3	70.3	72.9
82.5°	50.2	50.2	50.2	50.2	50.2
85°	30.2	30.2	30.2	30.2	30.2
87.5°	12.6	12.6	12.6	12.6	12.6
90°	0.0	0.0	0.0	0.0	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° - - 45°-225° - - - - 90°-270°

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)