

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: P580573

Luminaire Tested: **HCC4W40D010BZ-HM43040830-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580573
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-HM43040830-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

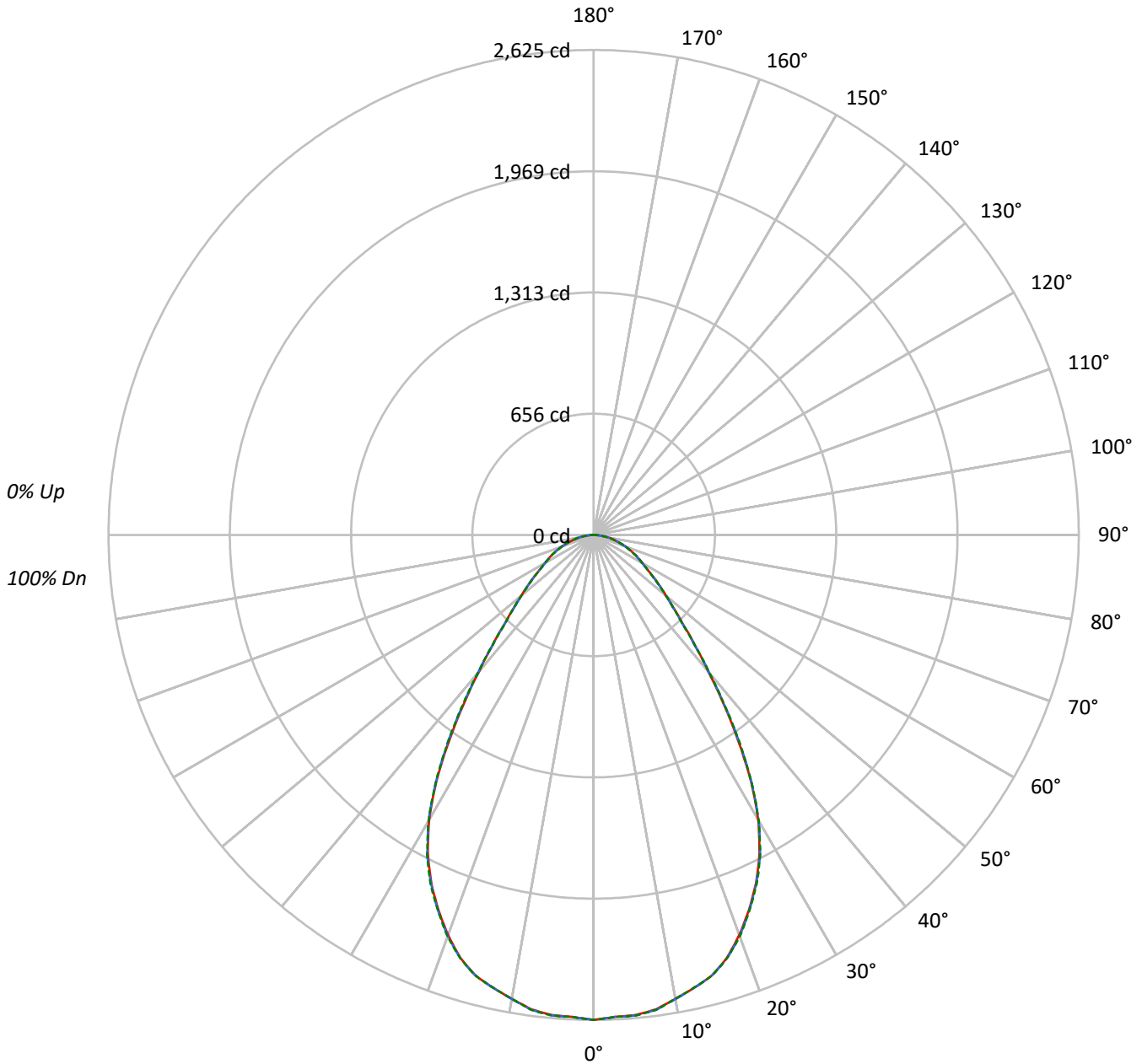
Lumens per Lamp: N/A
Luminaire Lumens: 4050.2 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580573
CATALOG NUMBER: HCC4W40D010BZ-HM43040830-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580573

CATALOG NUMBER: HCC4W40D010BZ-HM43040830-41WDW

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°	323782	323782	323782
5°	323013	323348	323348
10°	319246	319596	319246
15°	315424	315424	315424
20°	302479	303188	303543
25°	282932	283299	284034
30°	253506	254290	254290
35°	205809	207450	207872
40°	155332	156202	156637
45°	118984	118495	118495
50°	98018	97500	97500
55°	84148	83589	83589
60°	75093	74427	74427
65°	70572	70572	70572
70°	65672	65672	65672
75°	59571	60858	59571
80°	55973	54055	55973
85°	46137	46137	46137



TEST NUMBER: P580573
 CATALOG NUMBER: HCC4W40D010BZ-HM43040830-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	6.1
10°-20°	692.1	17.1
20°-30°	951.1	23.5
30°-40°	855.2	21.1
40°-50°	540.3	13.3
50°-60°	352.8	8.7
60°-70°	239.0	5.9
70°-80°	134.5	3.3
80°-90°	37.8	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°	1890.5	46.7
0°-40°	2745.7	67.8
0°-60°	3638.8	89.8
0°-90°	4050.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4050.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2609	2609	2612	2612	2612	247
15°	2470	2470	2470	2470	2470	692
25°	2079	2082	2082	2087	2087	949
35°	1367	1372	1378	1383	1380	851
45°	682	679	679	679	679	541
55°	391	391	389	391	389	354
65°	242	242	242	242	242	240
75°	125	128	128	128	125	134
85°	33	33	33	33	33	38
90°	0	0	0	0	0	



TEST NUMBER: P580573

CATALOG NUMBER: HCC4W40D010BZ-HM43040830-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2625.0	2625.0	2625.0	2625.0	2625.0
2.5°	2611.5	2611.5	2611.5	2611.5	2611.5
5°	2608.8	2608.8	2611.5	2611.5	2611.5
7.5°	2589.7	2592.4	2592.4	2592.4	2592.4
10°	2548.9	2548.9	2551.7	2551.7	2548.9
12.5°	2510.9	2510.9	2510.9	2513.6	2510.9
15°	2470.1	2470.1	2470.1	2470.1	2470.1
17.5°	2399.5	2402.2	2402.2	2402.2	2402.2
20°	2304.4	2309.8	2309.8	2312.5	2312.5
22.5°	2195.7	2198.4	2201.1	2203.9	2201.1
25°	2078.9	2081.6	2081.6	2087.0	2087.0
27.5°	1943.0	1945.7	1951.1	1951.1	1951.1
30°	1779.9	1782.6	1785.4	1785.4	1785.4
32.5°	1587.0	1587.0	1592.4	1595.2	1592.4
35°	1366.8	1372.3	1377.7	1383.2	1380.5
37.5°	1157.7	1163.0	1165.8	1165.8	1168.5
40°	964.7	970.1	970.1	975.6	972.8
42.5°	812.5	809.8	809.8	815.2	812.5
45°	682.1	679.3	679.3	679.3	679.3
47.5°	587.0	584.3	584.3	584.3	584.3
50°	510.8	508.1	508.1	508.1	508.1
52.5°	448.4	445.7	445.7	445.7	442.9
55°	391.3	391.3	388.7	391.3	388.7
57.5°	339.7	339.7	339.7	339.7	339.7
60°	304.4	301.7	301.7	301.7	301.7
62.5°	271.7	271.7	271.7	271.7	271.7
65°	241.8	241.8	241.8	241.8	241.8
67.5°	212.0	209.3	212.0	212.0	209.3
70°	182.1	179.4	182.1	182.1	182.1
72.5°	152.2	152.2	152.2	154.9	152.2
75°	125.0	127.7	127.7	127.7	125.0
77.5°	100.6	103.2	100.6	100.6	100.6
80°	78.8	76.1	76.1	76.1	78.8
82.5°	54.4	54.4	54.4	54.4	54.4
85°	32.6	32.6	32.6	32.6	32.6
87.5°	13.6	13.6	13.6	13.6	13.6
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)