

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: P592816

Luminaire Tested: **HCC4W40D010BZ-HM43040850-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W40D010BZ-HM43040850-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

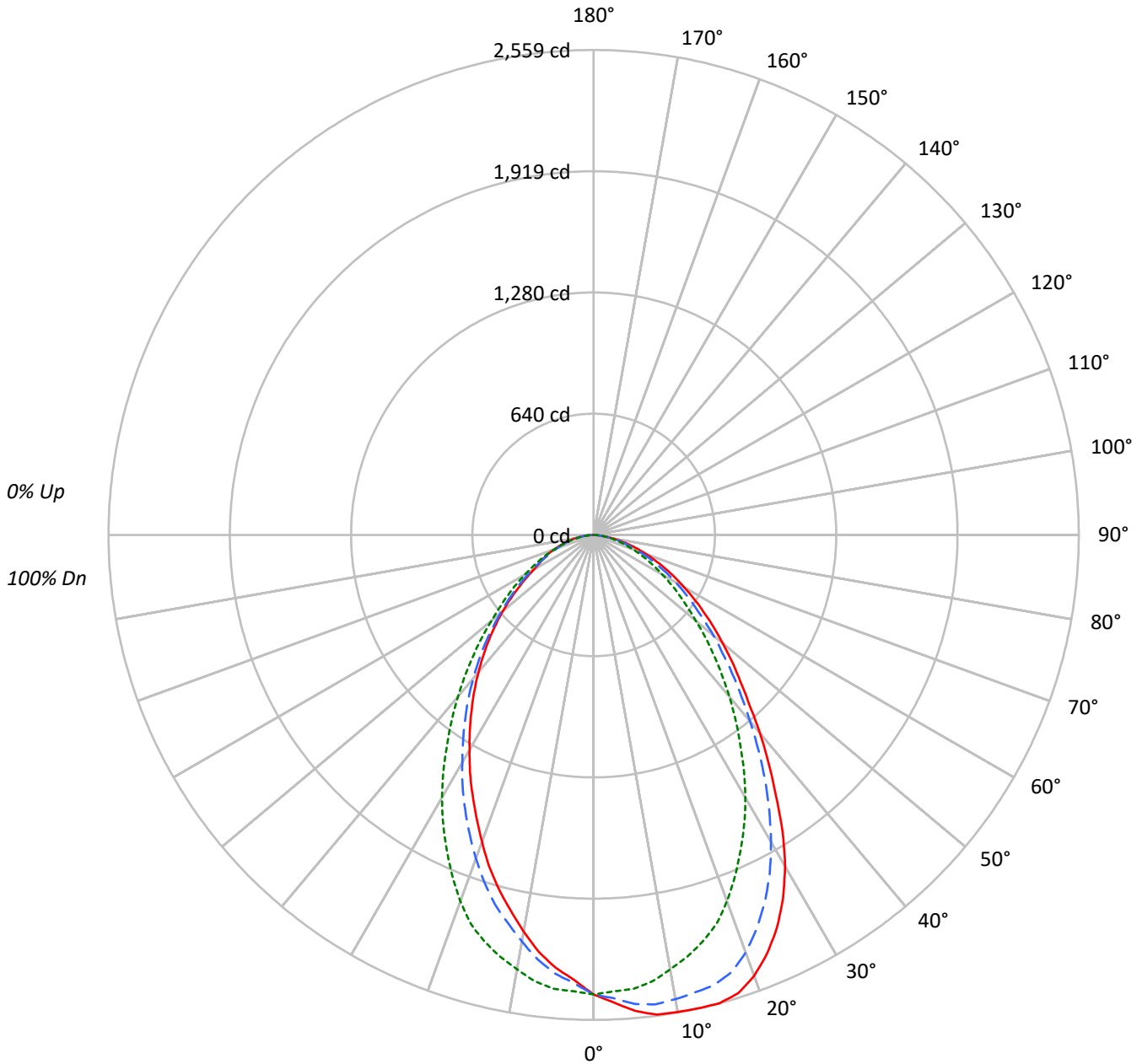
Lumens per Lamp: N/A
Luminaire Lumens: 4329.6 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592816
CATALOG NUMBER: HCC4W40D010BZ-HM43040850-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P592816

CATALOG NUMBER: HCC4W40D010BZ-HM43040850-41WWW

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	299051	299051	299051
5°	312204	297717	283937
10°	320097	291516	266153
15°	326725	283729	246940
20°	324978	269953	226151
25°	311335	249615	205751
30°	287632	227898	186466
35°	252111	202722	168797
40°	219546	179115	152015
45°	191061	156243	135817
50°	170208	134631	119856
55°	152124	118383	103652
60°	135804	103438	89352
65°	120684	90739	84902
70°	105956	78186	79196
75°	89691	66625	73392
80°	68901	56683	66912
85°	40334	44438	56468



TEST NUMBER: P592816
 CATALOG NUMBER: HCC4W40D010BZ-HM43040850-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	5.2
10°-20°	626.9	14.5
20°-30°	856.5	19.8
30°-40°	860.0	19.9
40°-50°	711.4	16.4
50°-60°	515.6	11.9
60°-70°	326.6	7.5
70°-80°	165.1	3.8
80°-90°	40.4	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°	1710.6	39.5
0°-40°	2570.6	59.4
0°-60°	3797.6	87.7
0°-90°	4329.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4329.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2424	2424	2424	2424	2424	
5°	2522	2484	2404	2325	2293	242
15°	2559	2459	2222	2017	1934	720
25°	2288	2136	1834	1603	1512	1045
35°	1674	1574	1346	1181	1121	1049
45°	1095	1033	896	807	779	852
55°	707	645	550	502	482	636
65°	414	368	311	280	291	412
75°	188	162	140	146	154	201
85°	28	28	31	37	40	40
90°	0	0	0	0	0	

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



TEST NUMBER: P592816

CATALOG NUMBER: HCC4W40D010BZ-HM43040850-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5
2.5°	2470.1	2461.6	2447.3	2430.2	2410.3	2387.4	2367.4	2356.0	2350.3
5°	2521.5	2510.0	2484.4	2447.3	2404.5	2361.7	2324.6	2301.9	2293.2
7.5°	2552.9	2535.7	2498.6	2441.7	2376.0	2313.3	2259.0	2227.7	2219.1
10°	2555.7	2535.7	2487.3	2410.3	2327.5	2244.8	2179.2	2133.6	2125.0
12.5°	2558.6	2532.9	2472.9	2381.7	2279.0	2176.3	2096.5	2042.2	2028.0
15°	2558.6	2532.9	2458.7	2350.3	2221.9	2105.0	2016.6	1953.9	1933.8
17.5°	2535.7	2507.2	2418.8	2293.2	2153.6	2022.3	1919.6	1854.0	1834.1
20°	2475.8	2444.5	2344.6	2207.7	2056.6	1919.6	1816.9	1748.5	1722.9
22.5°	2390.3	2353.2	2247.6	2099.3	1948.2	1808.4	1708.5	1637.2	1614.5
25°	2287.6	2250.5	2136.4	1990.9	1834.1	1702.8	1603.0	1537.5	1511.8
27.5°	2162.1	2122.2	2010.8	1865.5	1720.0	1588.8	1497.4	1437.6	1411.9
30°	2019.5	1976.7	1871.2	1731.4	1600.1	1474.7	1386.2	1337.8	1309.2
32.5°	1854.0	1816.9	1722.9	1597.3	1474.7	1354.8	1280.7	1237.9	1215.1
35°	1674.3	1654.4	1574.4	1466.2	1346.3	1246.4	1180.9	1141.0	1121.0
37.5°	1514.6	1494.6	1426.1	1334.9	1229.4	1138.0	1083.9	1049.7	1032.6
40°	1363.5	1346.3	1280.7	1203.7	1112.4	1032.6	986.9	961.3	944.1
42.5°	1215.1	1206.5	1152.4	1081.0	1001.2	932.7	895.7	875.6	861.4
45°	1095.3	1083.9	1032.6	964.1	895.7	838.6	807.2	793.0	778.6
47.5°	989.7	975.5	921.3	861.4	798.6	747.3	718.8	704.5	698.8
50°	887.0	872.8	824.3	764.4	701.6	664.6	641.8	627.5	624.6
52.5°	795.8	781.6	727.3	670.2	621.8	590.4	570.5	556.2	550.5
55°	707.4	690.3	644.6	590.4	550.5	521.9	502.0	487.7	482.0
57.5°	627.5	610.4	570.5	519.1	482.0	456.4	439.2	425.0	419.3
60°	550.5	536.3	499.2	450.6	419.3	396.5	379.3	367.9	362.2
62.5°	479.2	467.8	430.7	387.9	362.2	342.2	328.0	316.6	322.3
65°	413.5	402.2	367.9	330.9	310.9	290.9	279.6	279.6	290.9
67.5°	350.9	339.4	310.9	279.6	262.4	248.2	239.6	248.2	256.7
70°	293.8	282.4	256.7	231.0	216.8	205.4	205.4	213.9	219.6
72.5°	239.6	228.2	208.2	188.2	176.9	168.3	176.9	182.5	188.2
75°	188.2	179.7	162.5	148.3	139.8	136.9	145.5	151.2	154.0
77.5°	139.8	134.1	122.6	111.2	105.5	108.4	116.9	119.8	122.6
80°	97.0	94.2	85.5	79.8	79.8	82.7	88.4	91.2	94.2
82.5°	59.9	59.9	54.1	51.3	54.1	59.9	62.8	65.6	65.6
85°	28.5	31.4	28.5	28.5	31.4	37.1	37.1	39.9	39.9
87.5°	8.5	8.5	11.4	11.4	14.2	14.2	14.2	14.2	17.2
90°	0.0	0.0	0.0	0.0	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)