

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: P580591

Luminaire Tested: **HCC4W40D010MW-HM43040835-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580591
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: HCC4W40D010MW-HM43040835-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

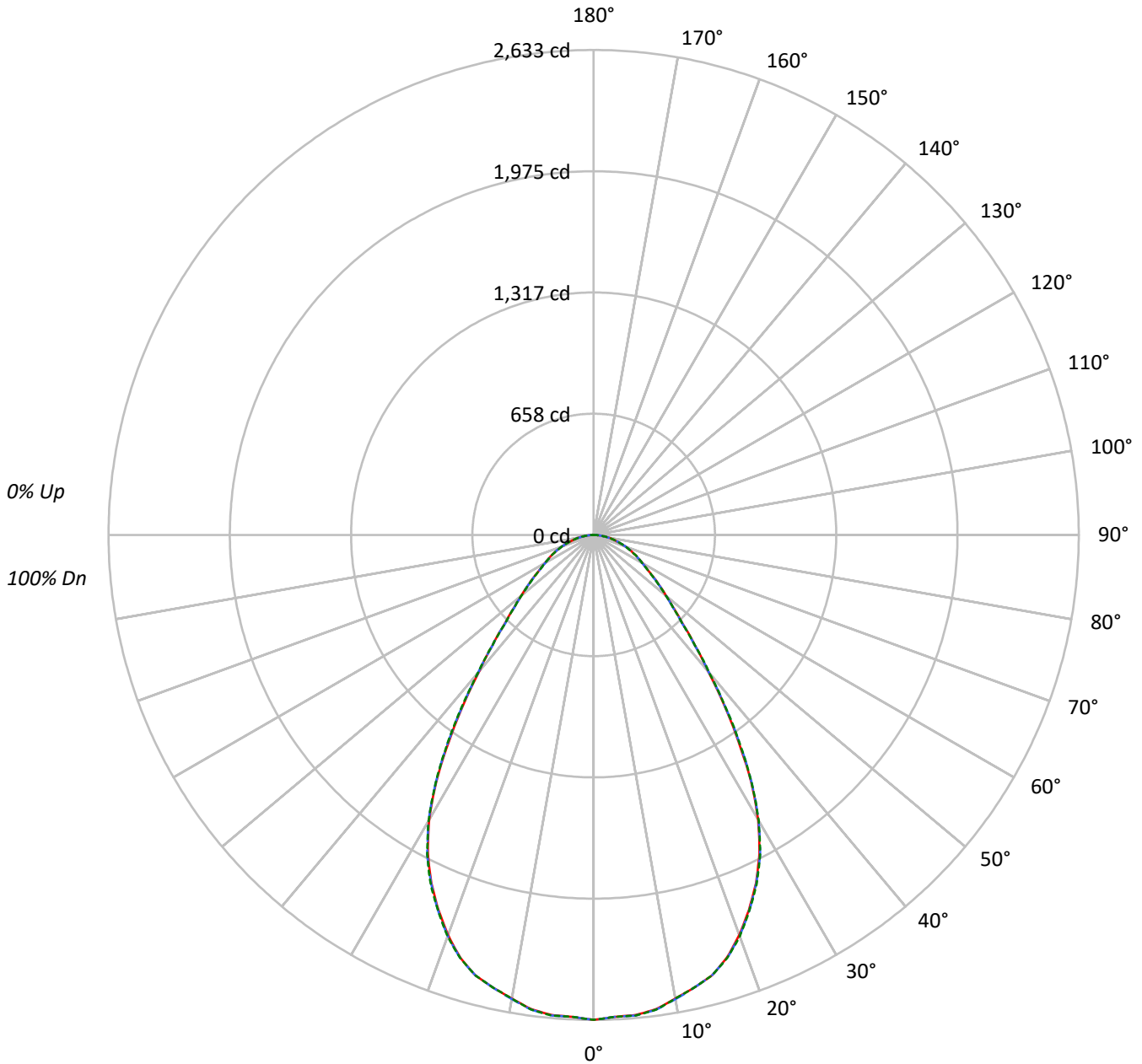
Lumens per Lamp: N/A
Luminaire Lumens: 4061.8 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580591
CATALOG NUMBER: HCC4W40D010MW-HM43040835-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580591

CATALOG NUMBER: HCC4W40D010MW-HM43040835-41WDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	324720	324720	324720
5°	323929	324276	324276
10°	320160	320511	320160
15°	316330	316330	316330
20°	303333	304055	304409
25°	283735	284102	284851
30°	254233	255016	255016
35°	206411	208053	208459
40°	155767	156653	157087
45°	119315	118844	118844
50°	98306	97788	97788
55°	84406	83804	83804
60°	75290	74599	74599
65°	70805	70805	70805
70°	65853	65853	65853
75°	59714	61049	59714
80°	56115	54197	56115
85°	46278	46278	46278



TEST NUMBER: P580591
 CATALOG NUMBER: HCC4W40D010MW-HM43040835-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	6.1
10°-20°	694.1	17.1
20°-30°	953.8	23.5
30°-40°	857.6	21.1
40°-50°	541.9	13.3
50°-60°	353.8	8.7
60°-70°	239.7	5.9
70°-80°	134.9	3.3
80°-90°	37.9	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°	1895.9	46.7
0°-40°	2753.6	67.8
0°-60°	3649.2	89.8
0°-90°	4061.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2633	2633	2633	2633	2633	
5°	2616	2616	2619	2619	2619	248
15°	2477	2477	2477	2477	2477	694
25°	2085	2088	2088	2093	2093	951
35°	1371	1376	1382	1387	1384	853
45°	684	681	681	681	681	543
55°	392	392	390	392	390	355
65°	243	243	243	243	243	240
75°	125	128	128	128	125	134
85°	33	33	33	33	33	38
90°	0	0	0	0	0	



TEST NUMBER: P580591

CATALOG NUMBER: HCC4W40D010MW-HM43040835-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2632.6	2632.6	2632.6	2632.6	2632.6
2.5°	2619.0	2619.0	2619.0	2619.0	2619.0
5°	2616.2	2616.2	2619.0	2619.0	2619.0
7.5°	2597.1	2599.8	2599.8	2599.8	2599.8
10°	2556.2	2556.2	2559.0	2559.0	2556.2
12.5°	2518.1	2518.1	2518.1	2520.8	2518.1
15°	2477.2	2477.2	2477.2	2477.2	2477.2
17.5°	2406.3	2409.1	2409.1	2409.1	2409.1
20°	2310.9	2316.4	2316.4	2319.1	2319.1
22.5°	2202.0	2204.7	2207.5	2210.2	2207.5
25°	2084.8	2087.5	2087.5	2093.0	2093.0
27.5°	1948.5	1951.2	1956.7	1956.7	1956.7
30°	1785.0	1787.8	1790.5	1790.5	1790.5
32.5°	1591.5	1591.5	1597.0	1599.7	1597.0
35°	1370.8	1376.3	1381.7	1387.1	1384.4
37.5°	1160.9	1166.4	1169.1	1169.1	1171.9
40°	967.4	972.9	972.9	978.4	975.6
42.5°	814.9	812.2	812.2	817.5	814.9
45°	684.0	681.3	681.3	681.3	681.3
47.5°	588.6	585.9	585.9	585.9	585.9
50°	512.3	509.6	509.6	509.6	509.6
52.5°	449.6	446.9	446.9	446.9	444.3
55°	392.5	392.5	389.7	392.5	389.7
57.5°	340.7	340.7	340.7	340.7	340.7
60°	305.2	302.4	302.4	302.4	302.4
62.5°	272.5	272.5	272.5	272.5	272.5
65°	242.6	242.6	242.6	242.6	242.6
67.5°	212.5	209.9	212.5	212.5	209.9
70°	182.6	179.9	182.6	182.6	182.6
72.5°	152.6	152.6	152.6	155.4	152.6
75°	125.3	128.1	128.1	128.1	125.3
77.5°	100.8	103.6	100.8	100.8	100.8
80°	79.0	76.3	76.3	76.3	79.0
82.5°	54.5	54.5	54.5	54.5	54.5
85°	32.7	32.7	32.7	32.7	32.7
87.5°	13.7	13.7	13.7	13.7	13.7
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)