

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: P592800

Luminaire Tested: **HCC4S40D010MB-HM43040850-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S40D010MB-HM43040850-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

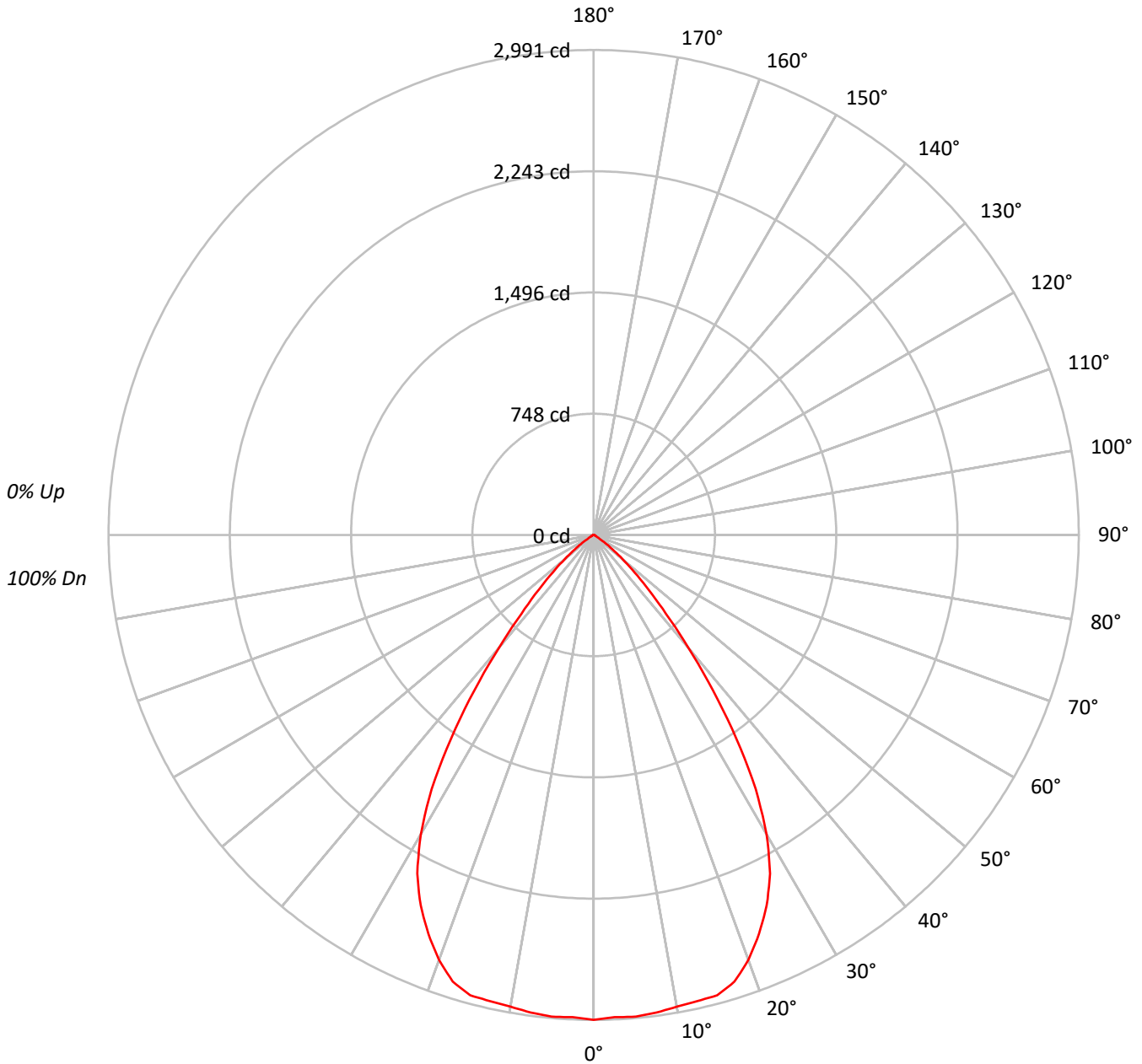
Lumens per Lamp: N/A
Luminaire Lumens: 3699.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592800
CATALOG NUMBER: HCC4S40D010MB-HM43040850-41WDBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P592800

CATALOG NUMBER: HCC4S40D010MB-HM43040850-41WDBB

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	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	99	97	97	96	94	94	93	93	91	91	89	89	87	85																				
	1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	91	89	87	85	82	80	78	78	75	75	72	72	72																					
	2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	82	80	78	78	75	72	72	72	72	72	72	72	72																					
	3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	75	72	72	72	72	72	72	72	72	72	72	72	72																					
	4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72																					
	5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66																				
	6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61																				
	7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56																				
	8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52																				
	9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49																				
	10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	368939
5°	369271
10°	369971
15°	375390
20°	366036
25°	343427
30°	303769
35°	230985
40°	145543
45°	83555
50°	44308
55°	18386
60°	4934
65°	4144
70°	3065
75°	2716
80°	1989
85°	3963



TEST NUMBER: P592800
 CATALOG NUMBER: HCC4S40D010MB-HM43040850-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	7.7
10°-20°	823.1	22.3
20°-30°	1148.8	31.1
30°-40°	945.3	25.6
40°-50°	389.4	10.5
50°-60°	87.7	2.4
60°-70°	14.1	0.4
70°-80°	5.2	0.1
80°-90°	1.9	0.1
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°	2255.6	61.0
0°-40°	3200.9	86.5
0°-60°	3678.1	99.4
0°-90°	3699.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3699.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2991	
5°	2982	284
15°	2940	823
25°	2523	1149
35°	1534	945
45°	479	389
55°	86	88
65°	14	14
75°	6	5
85°	3	2
90°	0	



TEST NUMBER: P592800
CATALOG NUMBER: HCC4S40D010MB-HM43040850-41WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2991.1
2.5°	2976.7
5°	2982.4
7.5°	2971.1
10°	2953.9
12.5°	2945.4
15°	2939.7
17.5°	2888.4
20°	2788.6
22.5°	2663.2
25°	2523.4
27.5°	2355.2
30°	2132.8
32.5°	1859.1
35°	1534.0
37.5°	1206.1
40°	903.9
42.5°	658.7
45°	479.0
47.5°	342.1
50°	230.9
52.5°	145.4
55°	85.5
57.5°	42.8
60°	20.0
62.5°	17.2
65°	14.2
67.5°	11.4
70°	8.5
72.5°	5.7
75°	5.7
77.5°	2.8
80°	2.8
82.5°	2.8
85°	2.8
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)