

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: P581095

Luminaire Tested: **HCC4W05D010MB-HM40525935-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581095
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: HCC4W05D010MB-HM40525935-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

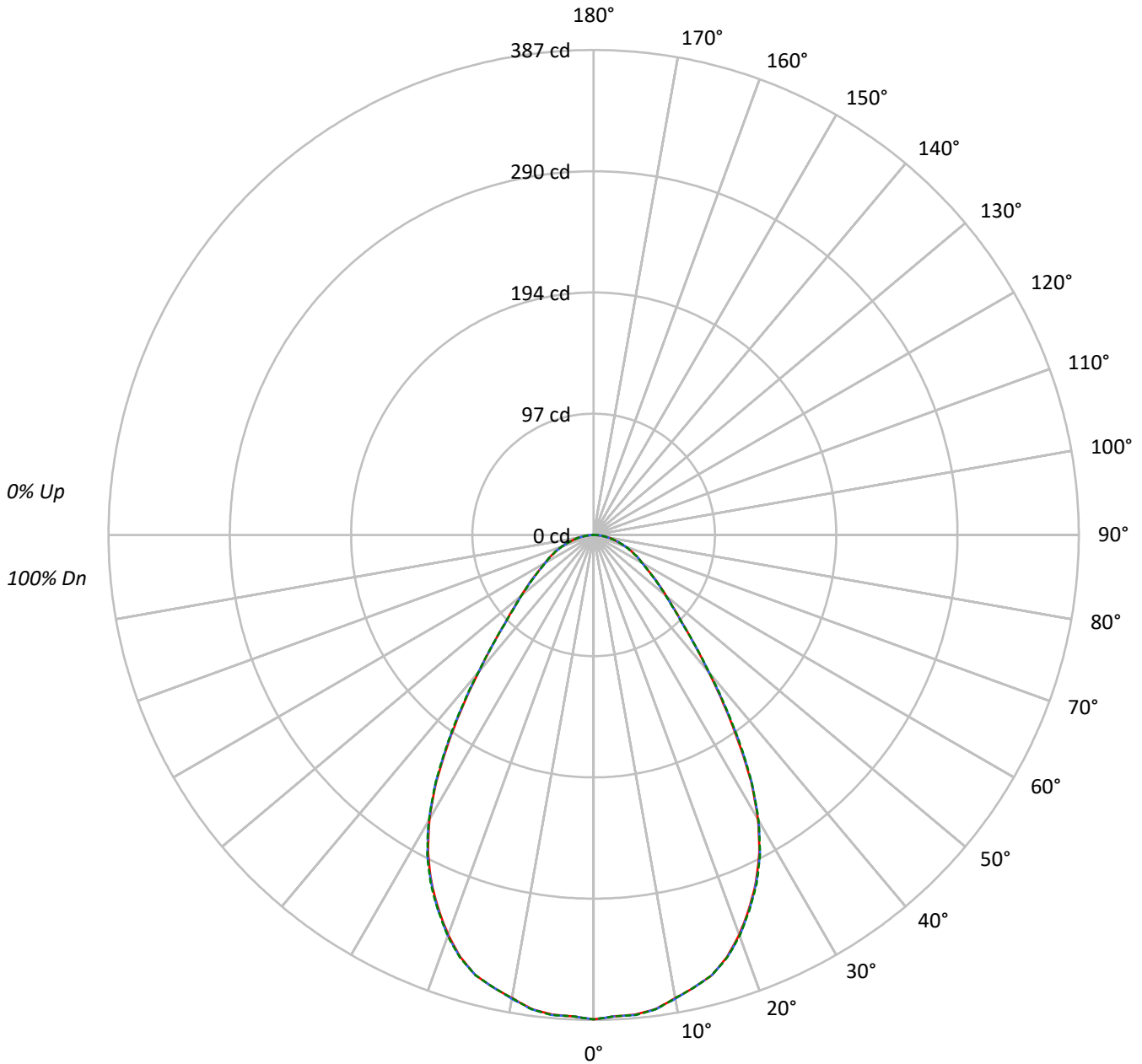
Lumens per Lamp: N/A
Luminaire Lumens: 596.5 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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: P581095
CATALOG NUMBER: HCC4W05D010MB-HM40525935-41WDW

Luminous Intensity Polar Plot





TEST NUMBER: P581095

CATALOG NUMBER: HCC4W05D010MB-HM40525935-41WDW

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	67	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°	47685	47685	47685
5°	47570	47608	47608
10°	47006	47068	47006
15°	46456	46456	46456
20°	44550	44655	44695
25°	41659	41727	41836
30°	37330	37444	37444
35°	30296	30537	30612
40°	22880	23009	23058
45°	17513	17444	17444
50°	14449	14354	14354
55°	12408	12301	12301
60°	11052	10953	10953
65°	10390	10390	10390
70°	9665	9665	9665
75°	8769	8960	8769
80°	8240	7956	8240
85°	6793	6793	6793



TEST NUMBER: P581095

CATALOG NUMBER: HCC4W05D010MB-HM40525935-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	6.1
10°-20°	101.9	17.1
20°-30°	140.1	23.5
30°-40°	125.9	21.1
40°-50°	79.6	13.3
50°-60°	52.0	8.7
60°-70°	35.2	5.9
70°-80°	19.8	3.3
80°-90°	5.6	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°	278.4	46.7
0°-40°	404.3	67.8
0°-60°	535.9	89.8
0°-90°	596.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	387	387	387	387	387	
5°	384	384	384	384	384	36
15°	364	364	364	364	364	102
25°	306	307	307	307	307	140
35°	201	202	203	204	203	125
45°	100	100	100	100	100	80
55°	58	58	57	58	57	52
65°	36	36	36	36	36	35
75°	18	19	19	19	18	20
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



TEST NUMBER: P581095

CATALOG NUMBER: HCC4W05D010MB-HM40525935-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	386.6	386.6	386.6	386.6	386.6
2.5°	384.5	384.5	384.5	384.5	384.5
5°	384.2	384.2	384.5	384.5	384.5
7.5°	381.4	381.7	381.7	381.7	381.7
10°	375.3	375.3	375.8	375.8	375.3
12.5°	369.8	369.8	369.8	370.1	369.8
15°	363.8	363.8	363.8	363.8	363.8
17.5°	353.3	353.8	353.8	353.8	353.8
20°	339.4	340.2	340.2	340.5	340.5
22.5°	323.4	323.7	324.2	324.5	324.2
25°	306.1	306.6	306.6	307.4	307.4
27.5°	286.1	286.5	287.3	287.3	287.3
30°	262.1	262.5	262.9	262.9	262.9
32.5°	233.7	233.7	234.5	234.9	234.5
35°	201.2	202.0	202.8	203.7	203.3
37.5°	170.5	171.3	171.6	171.6	172.1
40°	142.1	142.9	142.9	143.7	143.2
42.5°	119.6	119.3	119.3	120.1	119.6
45°	100.4	100.0	100.0	100.0	100.0
47.5°	86.5	86.0	86.0	86.0	86.0
50°	75.3	74.8	74.8	74.8	74.8
52.5°	66.1	65.6	65.6	65.6	65.3
55°	57.7	57.7	57.2	57.7	57.2
57.5°	50.1	50.1	50.1	50.1	50.1
60°	44.8	44.4	44.4	44.4	44.4
62.5°	40.1	40.1	40.1	40.1	40.1
65°	35.6	35.6	35.6	35.6	35.6
67.5°	31.2	30.8	31.2	31.2	30.8
70°	26.8	26.4	26.8	26.8	26.8
72.5°	22.4	22.4	22.4	22.8	22.4
75°	18.4	18.8	18.8	18.8	18.4
77.5°	14.8	15.2	14.8	14.8	14.8
80°	11.6	11.2	11.2	11.2	11.6
82.5°	8.1	8.1	8.1	8.1	8.1
85°	4.8	4.8	4.8	4.8	4.8
87.5°	2.0	2.0	2.0	2.0	2.0
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)