

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: P579879

Luminaire Tested: **HCC4W15D010MW-HM40525835-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W15D010MW-HM40525835-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

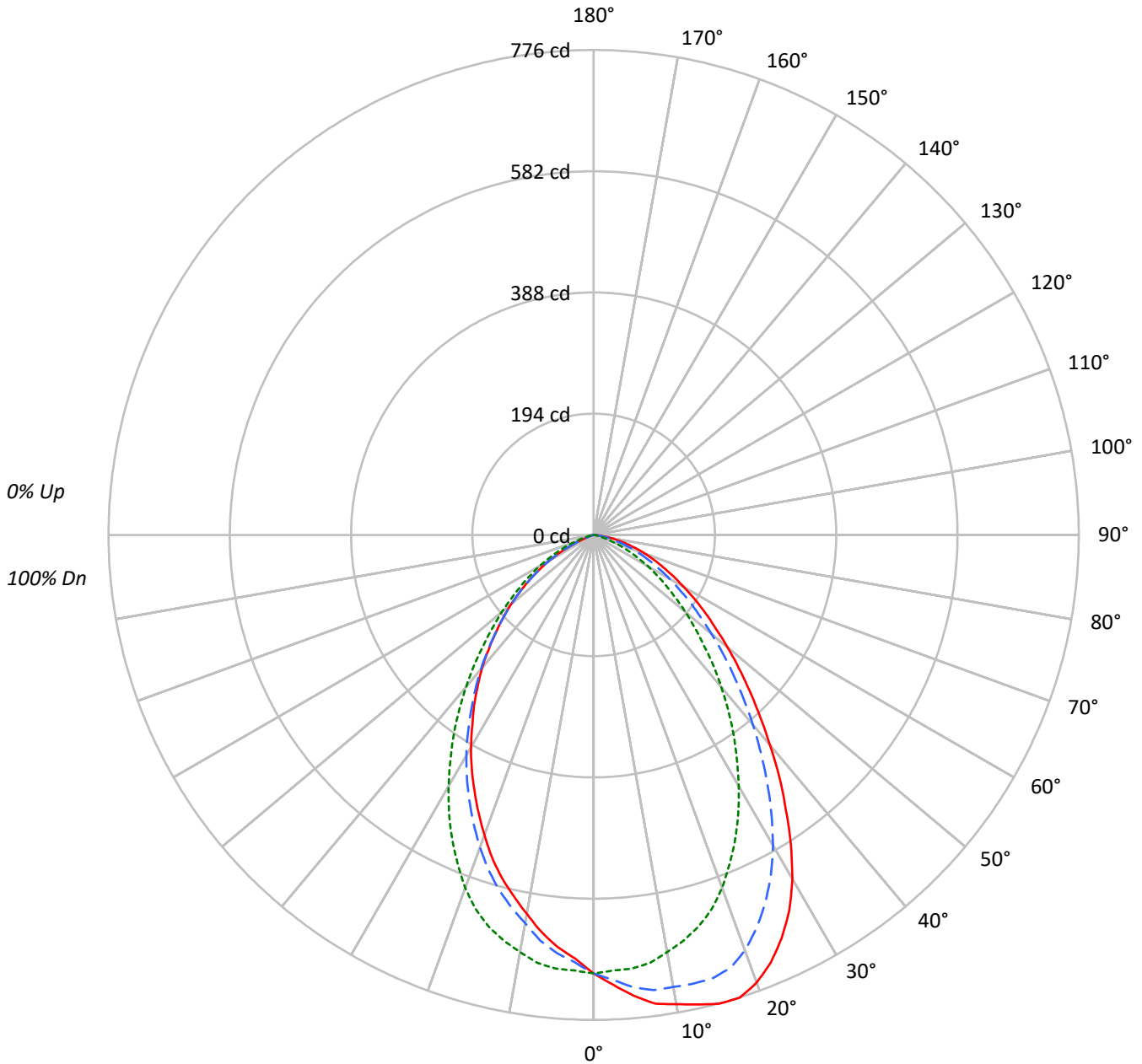
Lumens per Lamp: N/A
Luminaire Lumens: 1211.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P579879
CATALOG NUMBER: HCC4W15D010MW-HM40525835-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P579879

CATALOG NUMBER: HCC4W15D010MW-HM40525835-41WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	86539	86539	86539
5°	91686	86251	81930
10°	95502	84881	77128
15°	99157	82850	72519
20°	100087	78862	67075
25°	96847	72948	61407
30°	90555	66100	55874
35°	80709	58755	50202
40°	70557	51090	44666
45°	61472	43348	38655
50°	53634	36766	33140
55°	46988	30472	26816
60°	41123	24620	19686
65°	35840	18358	11091
70°	31339	11901	3606
75°	25687	6195	953
80°	19108	2841	710
85°	11322	1415	1415



TEST NUMBER: P579879
 CATALOG NUMBER: HCC4W15D010MW-HM40525835-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	5.5
10°-20°	185.3	15.3
20°-30°	256.3	21.1
30°-40°	257.7	21.3
40°-50°	207.9	17.2
50°-60°	140.6	11.6
60°-70°	71.6	5.9
70°-80°	22.9	1.9
80°-90°	3.5	0.3
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°	507.8	41.9
0°-40°	765.5	63.2
0°-60°	1114.0	91.9
0°-90°	1211.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1211.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	702	702	702	702	702	
5°	740	726	697	672	662	71
15°	776	735	649	587	568	219
25°	712	650	536	470	451	326
35°	536	484	390	341	333	335
45°	352	315	248	222	222	273
55°	218	189	142	124	125	196
65°	123	100	63	41	38	123
75°	54	38	13	3	2	58
85°	8	4	1	1	1	11
90°	0	0	0	0	0	

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



TEST NUMBER: P579879

CATALOG NUMBER: HCC4W15D010MW-HM40525835-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	701.6	701.6	701.6	701.6	701.6	701.6	701.6	701.6	701.6
2.5°	720.6	716.7	712.6	705.6	697.7	689.7	684.7	680.7	678.7
5°	740.5	735.5	726.5	711.6	696.6	682.7	671.7	664.7	661.7
7.5°	756.6	749.5	734.6	713.6	690.6	668.7	654.7	644.8	640.7
10°	762.5	754.5	734.6	706.6	677.7	650.7	630.8	620.8	615.8
12.5°	769.5	760.5	735.5	700.6	664.7	632.7	609.8	596.8	591.8
15°	776.5	764.5	734.6	691.6	648.8	611.8	586.8	573.8	567.9
17.5°	776.5	762.5	726.5	676.6	627.7	588.9	560.9	546.0	541.0
20°	762.5	746.6	707.7	652.8	600.8	558.9	532.0	517.0	511.0
22.5°	740.5	722.6	680.7	623.8	568.8	528.0	501.1	487.1	481.1
25°	711.6	693.7	649.7	590.9	536.0	495.0	470.0	457.1	451.2
27.5°	677.7	657.8	613.8	555.0	501.1	462.1	439.1	427.2	422.2
30°	635.8	616.8	573.8	516.0	464.1	428.2	407.2	396.2	392.3
32.5°	586.8	570.9	528.9	475.0	426.1	393.3	374.3	365.3	361.3
35°	536.0	521.0	484.0	434.1	390.2	359.3	341.3	335.3	333.4
37.5°	488.0	475.0	439.1	393.3	353.3	326.3	310.4	306.4	304.4
40°	438.2	429.2	396.2	354.3	317.3	293.5	280.5	277.4	277.4
42.5°	393.3	383.3	354.3	316.4	283.5	259.5	250.5	247.5	248.5
45°	352.4	342.4	315.4	280.5	248.5	228.5	221.6	221.6	221.6
47.5°	314.4	305.4	280.5	244.6	218.5	202.6	195.6	195.6	196.6
50°	279.5	273.4	245.5	214.6	191.6	176.7	171.7	170.7	172.7
52.5°	246.5	239.6	214.6	186.6	164.6	152.7	147.7	146.7	147.7
55°	218.5	210.6	188.6	161.7	141.7	129.7	123.7	122.8	124.7
57.5°	191.6	185.7	162.7	138.7	119.7	107.8	102.8	100.9	101.8
60°	166.7	160.7	139.7	116.8	99.8	87.8	80.8	78.8	79.8
62.5°	143.7	138.7	118.8	96.8	79.8	68.9	61.9	56.8	58.9
65°	122.8	117.8	99.8	77.9	62.9	50.9	40.9	37.0	38.0
67.5°	104.8	98.8	81.9	61.9	47.0	33.9	23.0	20.9	20.9
70°	86.9	80.8	65.8	47.9	33.0	18.0	10.0	10.0	10.0
72.5°	69.8	64.9	50.9	35.9	20.9	8.0	4.0	4.0	4.0
75°	53.9	49.9	38.0	24.9	13.0	4.0	3.0	2.0	2.0
77.5°	39.9	35.9	26.9	16.9	8.0	2.0	2.0	2.0	2.0
80°	26.9	24.0	18.0	10.0	4.0	1.0	1.0	1.0	1.0
82.5°	15.9	14.0	10.0	5.0	2.0	1.0	1.0	1.0	1.0
85°	8.0	6.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
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)