

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: P579772

Luminaire Tested: **HCC4W10D010MW-HM40525927-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579772
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: HCC4W10D010MW-HM40525927-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

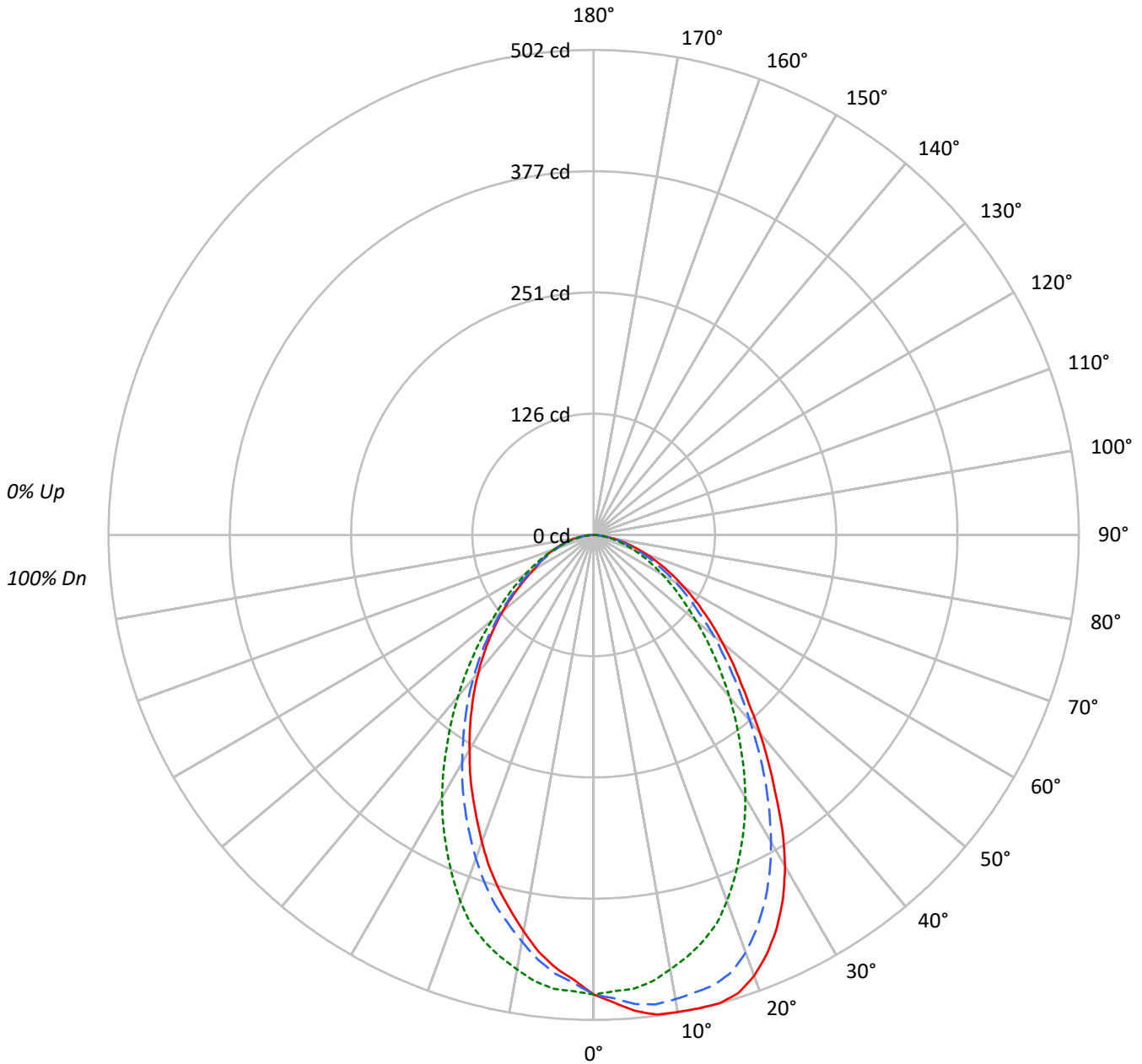
Lumens per Lamp: N/A
Luminaire Lumens: 849.4 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P579772
CATALOG NUMBER: HCC4W10D010MW-HM40525927-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P579772

CATALOG NUMBER: HCC4W10D010MW-HM40525927-41WWW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	58663	58663	58663
5°	61252	58404	55705
10°	62800	57188	52204
15°	64104	55663	48448
20°	63754	52951	44366
25°	61067	48968	40366
30°	56415	44708	36575
35°	49450	39767	33112
40°	43056	35150	29836
45°	37487	30649	26637
50°	33389	26423	23526
55°	29827	23225	20343
60°	26643	20303	17515
65°	23670	17803	16665
70°	20773	15363	15544
75°	17633	13058	14440
80°	13496	11152	13070
85°	7925	8633	11180



TEST NUMBER: P579772

CATALOG NUMBER: HCC4W10D010MW-HM40525927-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	5.2
10°-20°	123.0	14.5
20°-30°	168.0	19.8
30°-40°	168.7	19.9
40°-50°	139.6	16.4
50°-60°	101.1	11.9
60°-70°	64.1	7.5
70°-80°	32.4	3.8
80°-90°	7.9	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°	335.6	39.5
0°-40°	504.3	59.4
0°-60°	745.0	87.7
0°-90°	849.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	849.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	476	476	476	476	476	
5°	495	487	472	456	450	47
15°	502	482	436	396	379	141
25°	449	419	360	314	297	205
35°	328	309	264	232	220	206
45°	215	203	176	158	153	167
55°	139	126	108	98	95	125
65°	81	72	61	55	57	81
75°	37	32	27	29	30	39
85°	6	6	6	7	8	8
90°	0	0	0	0	0	

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



TEST NUMBER: P579772

CATALOG NUMBER: HCC4W10D010MW-HM40525927-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6
2.5°	484.6	482.9	480.1	476.7	472.8	468.4	464.4	462.1	461.1
5°	494.7	492.4	487.4	480.1	471.7	463.3	456.0	451.6	449.9
7.5°	500.8	497.4	490.1	479.0	466.1	453.8	443.1	437.0	435.3
10°	501.4	497.4	488.0	472.8	456.6	440.4	427.5	418.6	416.8
12.5°	502.0	496.9	485.1	467.3	447.1	427.0	411.3	400.7	397.8
15°	502.0	496.9	482.3	461.1	435.9	413.0	395.6	383.3	379.4
17.5°	497.4	491.8	474.5	449.9	422.4	396.7	376.6	363.7	359.8
20°	485.7	479.6	460.0	433.1	403.4	376.6	356.4	343.0	338.0
22.5°	468.9	461.7	441.0	411.8	382.1	354.7	335.1	321.1	316.7
25°	448.7	441.4	419.1	390.6	359.8	334.0	314.4	301.6	296.6
27.5°	424.1	416.3	394.4	366.0	337.4	311.7	293.7	282.0	277.0
30°	396.1	387.7	367.1	339.7	313.9	289.3	272.0	262.4	256.8
32.5°	363.7	356.4	338.0	313.4	289.3	265.8	251.3	242.8	238.4
35°	328.4	324.6	308.9	287.6	264.1	244.6	231.7	223.8	219.9
37.5°	297.1	293.1	279.7	261.9	241.1	223.3	212.6	205.9	202.6
40°	267.4	264.1	251.3	236.1	218.3	202.6	193.6	188.6	185.3
42.5°	238.4	236.7	226.0	212.1	196.4	183.0	175.7	171.8	169.0
45°	214.9	212.6	202.6	189.1	175.7	164.6	158.4	155.6	152.7
47.5°	194.1	191.4	180.7	169.0	156.7	146.6	141.0	138.2	137.1
50°	174.0	171.3	161.7	150.0	137.7	130.4	125.9	123.1	122.6
52.5°	156.1	153.3	142.7	131.4	122.0	115.8	111.9	109.1	108.0
55°	138.7	135.4	126.4	115.8	108.0	102.4	98.4	95.7	94.6
57.5°	123.1	119.7	111.9	101.9	94.6	89.6	86.1	83.4	82.3
60°	108.0	105.2	97.9	88.4	82.3	77.7	74.4	72.1	71.0
62.5°	94.0	91.7	84.4	76.1	71.0	67.1	64.3	62.1	63.3
65°	81.1	78.9	72.1	64.9	61.0	57.1	54.9	54.9	57.1
67.5°	68.8	66.6	61.0	54.9	51.4	48.7	47.0	48.7	50.4
70°	57.6	55.4	50.4	45.3	42.6	40.3	40.3	42.0	43.1
72.5°	47.0	44.7	40.9	37.0	34.7	33.0	34.7	35.8	37.0
75°	37.0	35.3	31.9	29.1	27.4	26.9	28.6	29.7	30.3
77.5°	27.4	26.3	24.0	21.8	20.7	21.3	23.0	23.6	24.0
80°	19.0	18.4	16.8	15.7	15.7	16.3	17.3	17.9	18.4
82.5°	11.7	11.7	10.6	10.1	10.6	11.7	12.3	12.9	12.9
85°	5.6	6.1	5.6	5.6	6.1	7.3	7.3	7.9	7.9
87.5°	1.7	1.7	2.3	2.3	2.8	2.8	2.8	2.8	3.4
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)