

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: P581511

Luminaire Tested: **HCC4W07D010MB-HM40525930-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W07D010MB-HM40525930-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 770.9 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

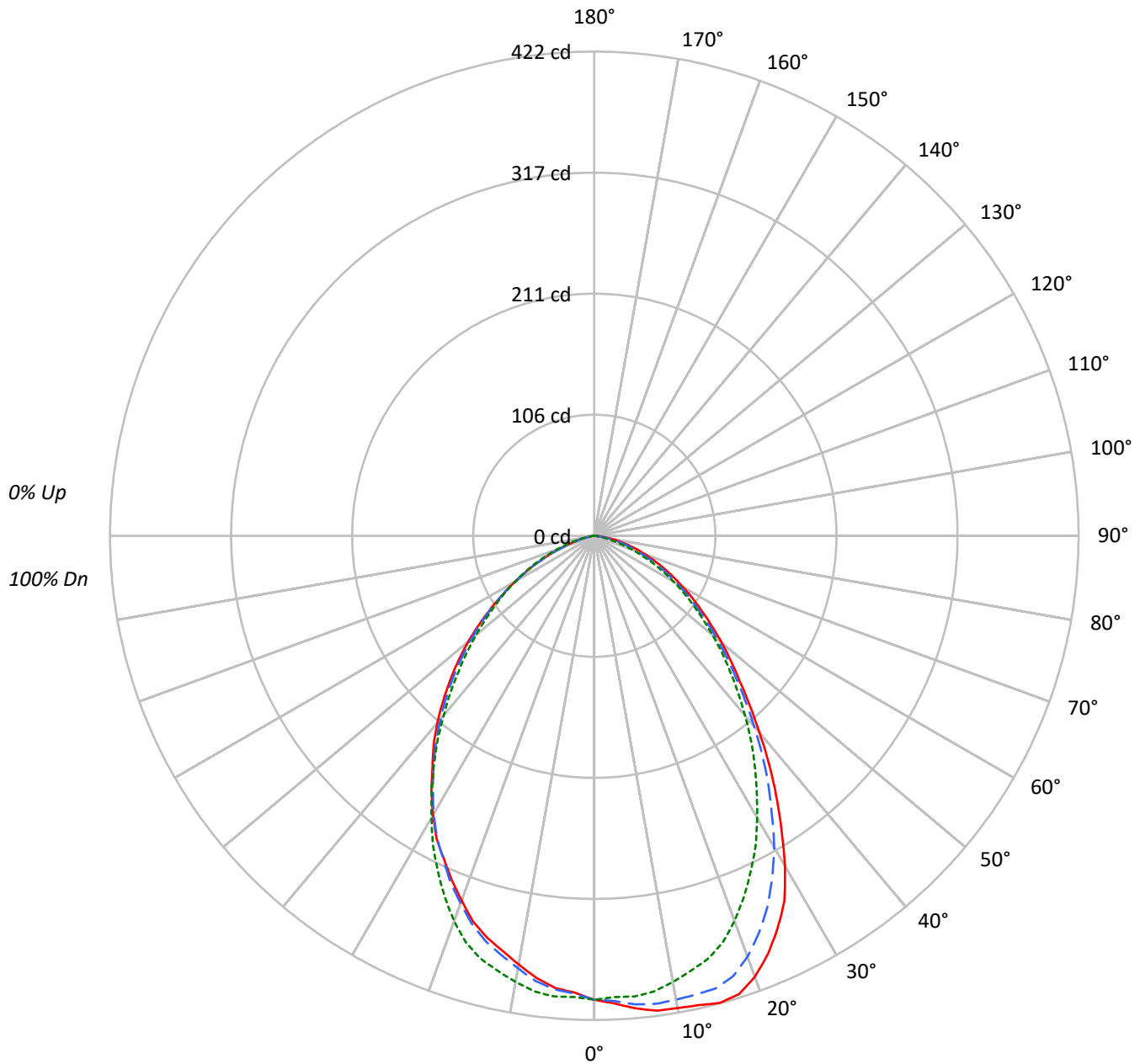
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581511

CATALOG NUMBER: HCC4W07D010MB-HM40525930-41RWWH

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P581511

CATALOG NUMBER: HCC4W07D010MB-HM40525930-41RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59		
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52		
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47		
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	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	41	37	47	41	37	46	41	37	35		
10	58	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°	49881	49881	49881
5°	51198	49898	48970
10°	52354	49461	47507
15°	53824	48755	46252
20°	53686	46887	44380
25°	51417	43891	42244
30°	47300	40421	40008
35°	41604	36681	36997
40°	36003	32831	34232
45°	31277	29183	30928
50°	27786	25752	27479
55°	24644	22580	23548
60°	21931	19587	19587
65°	19496	16286	15235
70°	16878	12298	10891
75°	14106	8149	6720
80°	10655	3978	3552
85°	5661	1415	1415



TEST NUMBER: P581511

CATALOG NUMBER: HCC4W07D010MB-HM40525930-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	5.0
10°-20°	108.6	14.1
20°-30°	153.1	19.9
30°-40°	158.2	20.5
40°-50°	134.1	17.4
50°-60°	97.6	12.7
60°-70°	57.0	7.4
70°-80°	21.2	2.7
80°-90°	2.8	0.4
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°	300.0	38.9
0°-40°	458.2	59.4
0°-60°	689.9	89.5
0°-90°	770.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	404	404	404	404	404	
5°	414	410	403	397	396	40
15°	422	408	382	366	362	118
25°	378	357	322	311	310	173
35°	276	264	244	244	246	173
45°	179	174	167	173	177	140
55°	115	109	105	109	110	103
65°	67	61	56	52	52	66
75°	30	25	17	14	14	32
85°	4	2	1	1	1	6
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P581511

CATALOG NUMBER: HCC4W07D010MB-HM40525930-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4
2.5°	408.0	406.9	405.9	404.4	402.4	400.9	399.4	398.4	398.4
5°	413.5	412.0	410.0	406.5	403.0	399.9	396.9	395.5	395.5
7.5°	417.5	415.5	411.5	406.5	400.5	395.9	391.4	389.4	388.4
10°	418.0	416.1	410.5	403.0	394.9	387.8	382.8	379.9	379.3
12.5°	419.0	416.5	409.5	398.9	388.4	379.9	374.3	371.3	370.3
15°	421.5	418.0	408.4	394.9	381.8	371.8	365.8	363.2	362.2
17.5°	419.0	414.0	402.4	386.4	371.8	360.7	354.7	352.2	352.2
20°	409.0	404.0	390.3	372.8	357.2	346.6	340.6	339.1	338.1
22.5°	394.9	389.4	374.9	356.2	340.6	331.0	327.1	325.0	324.6
25°	377.8	372.2	356.8	337.6	322.5	314.5	311.0	311.0	310.4
27.5°	358.7	351.6	335.6	319.1	304.4	298.4	296.9	296.9	297.5
30°	332.1	327.1	313.5	297.5	283.8	279.8	279.8	280.9	280.9
32.5°	303.5	300.0	287.9	273.8	263.2	260.7	261.7	263.8	264.2
35°	276.3	272.3	264.2	251.7	243.6	242.6	244.2	245.7	245.7
37.5°	249.7	245.7	240.1	230.1	224.1	224.5	226.6	228.6	230.1
40°	223.6	220.5	216.6	208.5	203.9	206.0	208.5	210.5	212.6
42.5°	200.5	197.4	194.5	188.5	185.4	187.9	191.0	192.9	194.9
45°	179.3	177.3	174.3	169.3	167.3	169.8	173.3	175.4	177.3
47.5°	161.3	160.2	156.2	151.7	150.7	153.3	156.2	158.8	160.2
50°	144.8	143.2	139.6	135.2	134.2	138.2	140.2	141.7	143.2
52.5°	128.6	127.1	123.1	119.0	119.0	122.1	123.6	124.0	125.6
55°	114.6	113.0	109.0	106.1	105.0	107.5	108.6	108.6	109.5
57.5°	101.5	100.0	95.9	92.4	92.0	93.4	93.4	93.4	94.0
60°	88.9	87.4	83.4	80.3	79.4	79.9	79.4	78.9	79.4
62.5°	77.4	75.9	71.8	68.3	67.4	67.4	65.8	65.3	65.8
65°	66.8	64.3	61.3	57.8	55.8	54.3	52.2	52.2	52.2
67.5°	56.2	54.3	50.8	47.2	44.7	42.2	39.1	40.2	40.7
70°	46.8	45.2	41.2	37.7	34.1	31.2	28.7	29.6	30.2
72.5°	38.2	36.2	32.7	28.7	25.6	21.6	20.1	21.1	21.1
75°	29.6	27.7	24.6	20.6	17.1	13.5	13.5	14.1	14.1
77.5°	22.1	20.1	17.1	13.5	10.6	8.1	8.5	8.5	8.5
80°	15.0	13.5	11.0	8.1	5.6	4.6	4.6	4.6	5.0
82.5°	8.5	7.5	6.0	4.0	2.5	2.5	2.5	2.5	2.5
85°	4.0	3.0	2.5	1.5	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 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)