

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: P581513

Luminaire Tested: **HCC4S07D010MB-HM40525930-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581513
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: HCC4S07D010MB-HM40525930-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 762.9 lumens
Efficiency: N/A
Efficacy: 95.4 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

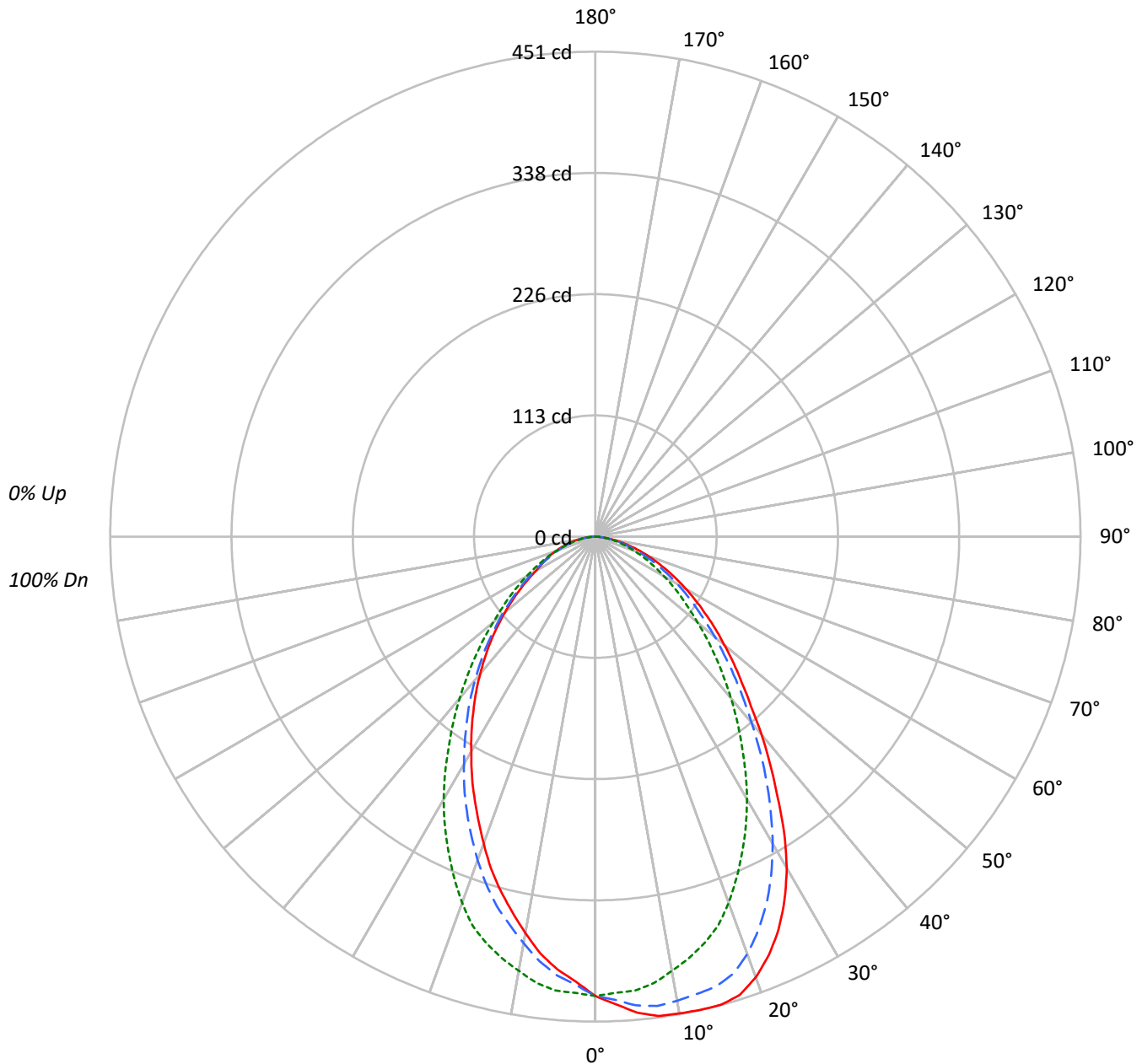
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581513

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41WWW

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P581513

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41WWW

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	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°	52693	52693	52693
5°	55012	52461	50034
10°	56399	51364	46893
15°	57566	49993	43506
20°	57256	47556	39838
25°	54861	43986	36256
30°	50690	40150	32858
35°	44420	35717	29754
40°	38676	31559	26793
45°	33666	27526	23933
50°	29973	23718	21108
55°	26795	20860	18257
60°	23929	18230	15739
65°	21247	15965	14943
70°	18681	13776	13957
75°	15774	11724	12915
80°	12146	10016	11791
85°	7076	7925	10048

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P581513

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	5.2
10°-20°	110.5	14.5
20°-30°	150.9	19.8
30°-40°	151.5	19.9
40°-50°	125.4	16.4
50°-60°	90.8	11.9
60°-70°	57.5	7.5
70°-80°	29.1	3.8
80°-90°	7.1	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°	301.4	39.5
0°-40°	452.9	59.4
0°-60°	669.1	87.7
0°-90°	762.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	427	427	427	427	427	
5°	444	438	424	410	404	43
15°	451	433	392	355	341	127
25°	403	376	323	282	266	184
35°	295	277	237	208	198	185
45°	193	182	158	142	137	150
55°	125	114	97	88	85	112
65°	73	65	55	49	51	73
75°	33	29	25	26	27	35
85°	5	5	6	6	7	7
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P581513

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	427.2	427.2	427.2	427.2	427.2	427.2	427.2	427.2	427.2
2.5°	435.2	433.7	431.2	428.2	424.7	420.6	417.1	415.1	414.1
5°	444.3	442.2	437.7	431.2	423.7	416.2	409.6	405.6	404.1
7.5°	449.7	446.8	440.3	430.2	418.7	407.6	398.1	392.5	391.0
10°	450.3	446.8	438.2	424.7	410.1	395.6	384.0	375.9	374.4
12.5°	450.8	446.3	435.7	419.7	401.6	383.5	369.4	359.8	357.3
15°	450.8	446.3	433.2	414.1	391.5	370.9	355.3	344.2	340.7
17.5°	446.8	441.8	426.2	404.1	379.4	356.3	338.2	326.7	323.2
20°	436.2	430.7	413.1	389.0	362.3	338.2	320.1	308.1	303.5
22.5°	421.2	414.6	396.0	369.8	343.2	318.6	301.0	288.5	284.5
25°	403.1	396.5	376.5	350.7	323.2	300.0	282.5	270.8	266.4
27.5°	380.9	373.9	354.3	328.7	303.0	279.9	263.8	253.3	248.8
30°	355.9	348.2	329.7	305.1	281.9	259.8	244.2	235.7	230.7
32.5°	326.7	320.1	303.5	281.4	259.8	238.8	225.7	218.2	214.1
35°	295.0	291.4	277.4	258.3	237.2	219.6	208.0	201.0	197.6
37.5°	266.9	263.3	251.3	235.2	216.6	200.5	191.0	184.9	182.0
40°	240.2	237.2	225.7	212.1	196.0	182.0	173.9	169.3	166.4
42.5°	214.1	212.6	203.0	190.5	176.4	164.3	157.8	154.3	151.8
45°	193.0	191.0	182.0	169.9	157.8	147.7	142.2	139.7	137.2
47.5°	174.3	171.8	162.3	151.8	140.8	131.7	126.7	124.2	123.1
50°	156.2	153.7	145.2	134.7	123.6	117.1	113.1	110.6	110.0
52.5°	140.2	137.7	128.1	118.1	109.6	104.0	100.5	98.0	97.0
55°	124.6	121.7	113.6	104.0	97.0	92.0	88.4	85.9	84.9
57.5°	110.6	107.5	100.5	91.5	84.9	80.5	77.4	74.9	73.9
60°	97.0	94.5	88.0	79.4	73.9	69.9	66.8	64.9	63.8
62.5°	84.4	82.4	75.9	68.4	63.8	60.3	57.8	55.8	56.8
65°	72.8	70.9	64.9	58.3	54.7	51.2	49.3	49.3	51.2
67.5°	61.8	59.9	54.7	49.3	46.2	43.7	42.2	43.7	45.2
70°	51.8	49.7	45.2	40.7	38.2	36.2	36.2	37.7	38.7
72.5°	42.2	40.2	36.6	33.1	31.2	29.7	31.2	32.2	33.1
75°	33.1	31.6	28.7	26.2	24.6	24.1	25.6	26.6	27.1
77.5°	24.6	23.7	21.6	19.6	18.5	19.1	20.6	21.1	21.6
80°	17.1	16.6	15.0	14.1	14.1	14.6	15.6	16.0	16.6
82.5°	10.6	10.6	9.6	9.0	9.6	10.6	11.0	11.6	11.6
85°	5.0	5.6	5.0	5.0	5.6	6.5	6.5	7.1	7.1
87.5°	1.5	1.5	2.0	2.0	2.5	2.5	2.5	2.5	3.0
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)