

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: P581512

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581512
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: HCC4S07D010MB-HM40525930-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 610.0 lumens
Efficiency: N/A
Efficacy: 76.3 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

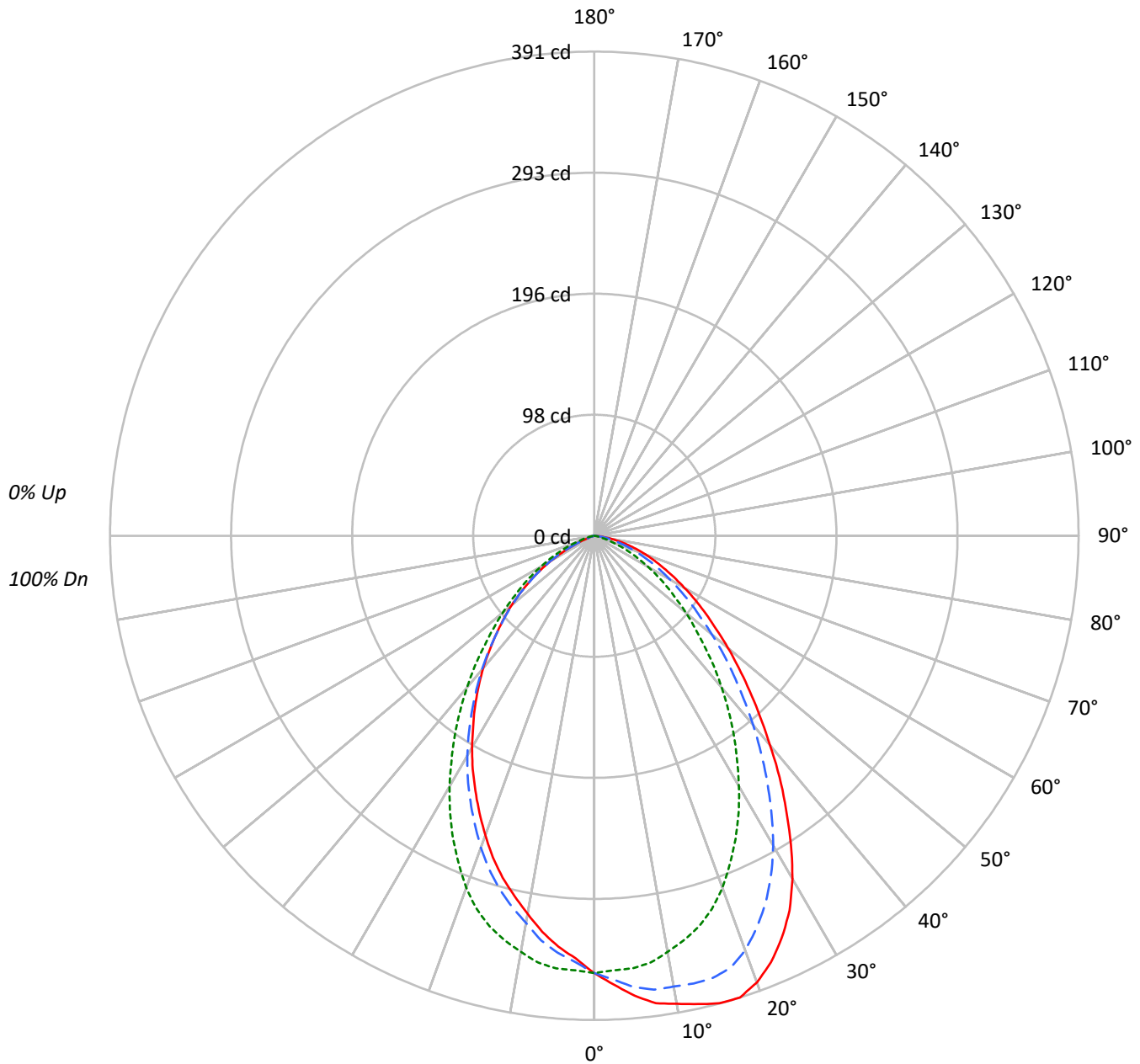
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581512

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41WWBB

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P581512

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41WWBB

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	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	43	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°	43566	43566	43566
5°	46159	43423	41243
10°	48070	42735	38827
15°	49917	41706	36509
20°	50378	39707	33761
25°	48750	36719	30908
30°	45577	33271	28115
35°	40626	29573	25282
40°	35504	25730	22478
45°	30928	21822	19450
50°	26999	18518	16675
55°	23655	15354	13505
60°	20697	12384	9917
65°	18037	9223	5575
70°	15760	5987	1803
75°	12915	3098	477
80°	9589	1421	355
85°	5661	708	708



TEST NUMBER: P581512

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	5.5
10°-20°	93.3	15.3
20°-30°	129.0	21.1
30°-40°	129.7	21.3
40°-50°	104.7	17.2
50°-60°	70.8	11.6
60°-70°	36.0	5.9
70°-80°	11.5	1.9
80°-90°	1.8	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°	255.6	41.9
0°-40°	385.3	63.2
0°-60°	560.7	91.9
0°-90°	610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	610.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	353	353	353	353	353	
5°	373	366	351	338	333	36
15°	391	370	327	295	286	110
25°	358	327	270	237	227	164
35°	270	244	196	172	168	169
45°	177	159	125	112	112	137
55°	110	95	71	62	63	99
65°	62	50	32	21	19	62
75°	27	19	6	2	1	29
85°	4	2	0	0	0	5
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P581512

CATALOG NUMBER: HCC4S07D010MB-HM40525930-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2
2.5°	362.8	360.7	358.7	355.2	351.2	347.2	344.7	342.7	341.6
5°	372.8	370.3	365.8	358.2	350.7	343.7	338.1	334.6	333.1
7.5°	380.8	377.4	369.7	359.3	347.7	336.6	329.6	324.6	322.5
10°	383.8	379.9	369.7	355.7	341.2	327.5	317.5	312.5	310.0
12.5°	387.4	382.8	370.3	352.7	334.6	318.5	306.9	300.4	297.9
15°	390.9	384.9	369.7	348.2	326.6	307.9	295.4	288.9	285.9
17.5°	390.9	383.8	365.8	340.6	316.0	296.4	282.3	274.8	272.3
20°	383.8	375.8	356.2	328.5	302.5	281.3	267.8	260.3	257.2
22.5°	372.8	363.7	342.7	314.0	286.3	265.7	252.2	245.1	242.2
25°	358.2	349.1	327.1	297.5	269.8	249.2	236.6	230.1	227.1
27.5°	341.2	331.0	309.0	279.4	252.2	232.6	221.1	215.1	212.5
30°	320.0	310.4	288.9	259.7	233.6	215.5	205.0	199.5	197.4
32.5°	295.4	287.3	266.3	239.1	214.5	197.9	188.5	183.9	181.9
35°	269.8	262.3	243.6	218.5	196.4	180.8	171.8	168.8	167.9
37.5°	245.7	239.1	221.1	197.9	177.9	164.3	156.2	154.2	153.3
40°	220.5	216.0	199.5	178.3	159.8	147.7	141.2	139.6	139.6
42.5°	197.9	192.9	178.3	159.3	142.7	130.6	126.1	124.6	125.1
45°	177.3	172.3	158.8	141.2	125.1	115.1	111.5	111.5	111.5
47.5°	158.3	153.7	141.2	123.1	110.0	102.0	98.4	98.4	99.0
50°	140.7	137.7	123.6	108.0	96.5	88.9	86.4	85.9	86.9
52.5°	124.0	120.6	108.0	94.0	82.8	76.8	74.3	73.9	74.3
55°	110.0	106.1	94.9	81.4	71.4	65.3	62.2	61.8	62.8
57.5°	96.5	93.4	81.9	69.9	60.3	54.3	51.8	50.8	51.2
60°	83.9	80.9	70.3	58.8	50.2	44.3	40.7	39.7	40.2
62.5°	72.4	69.9	59.7	48.7	40.2	34.7	31.2	28.7	29.6
65°	61.8	59.3	50.2	39.1	31.6	25.6	20.6	18.5	19.1
67.5°	52.8	49.7	41.2	31.2	23.6	17.1	11.6	10.6	10.6
70°	43.7	40.7	33.1	24.1	16.6	9.0	5.0	5.0	5.0
72.5°	35.2	32.7	25.6	18.1	10.6	4.0	2.0	2.0	2.0
75°	27.1	25.1	19.1	12.5	6.5	2.0	1.5	1.0	1.0
77.5°	20.1	18.1	13.5	8.5	4.0	1.0	1.0	1.0	1.0
80°	13.5	12.1	9.0	5.0	2.0	0.5	0.5	0.5	0.5
82.5°	8.1	7.1	5.0	2.5	1.0	0.5	0.5	0.5	0.5
85°	4.0	3.0	2.0	1.0	0.5	0.5	0.5	0.5	0.5
87.5°	1.0	0.5	0.5	0.5	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

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)