

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: P581458

Luminaire Tested: **HCC4W07D010MB-HM40525835-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581458  
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: HCC4W07D010MB-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**

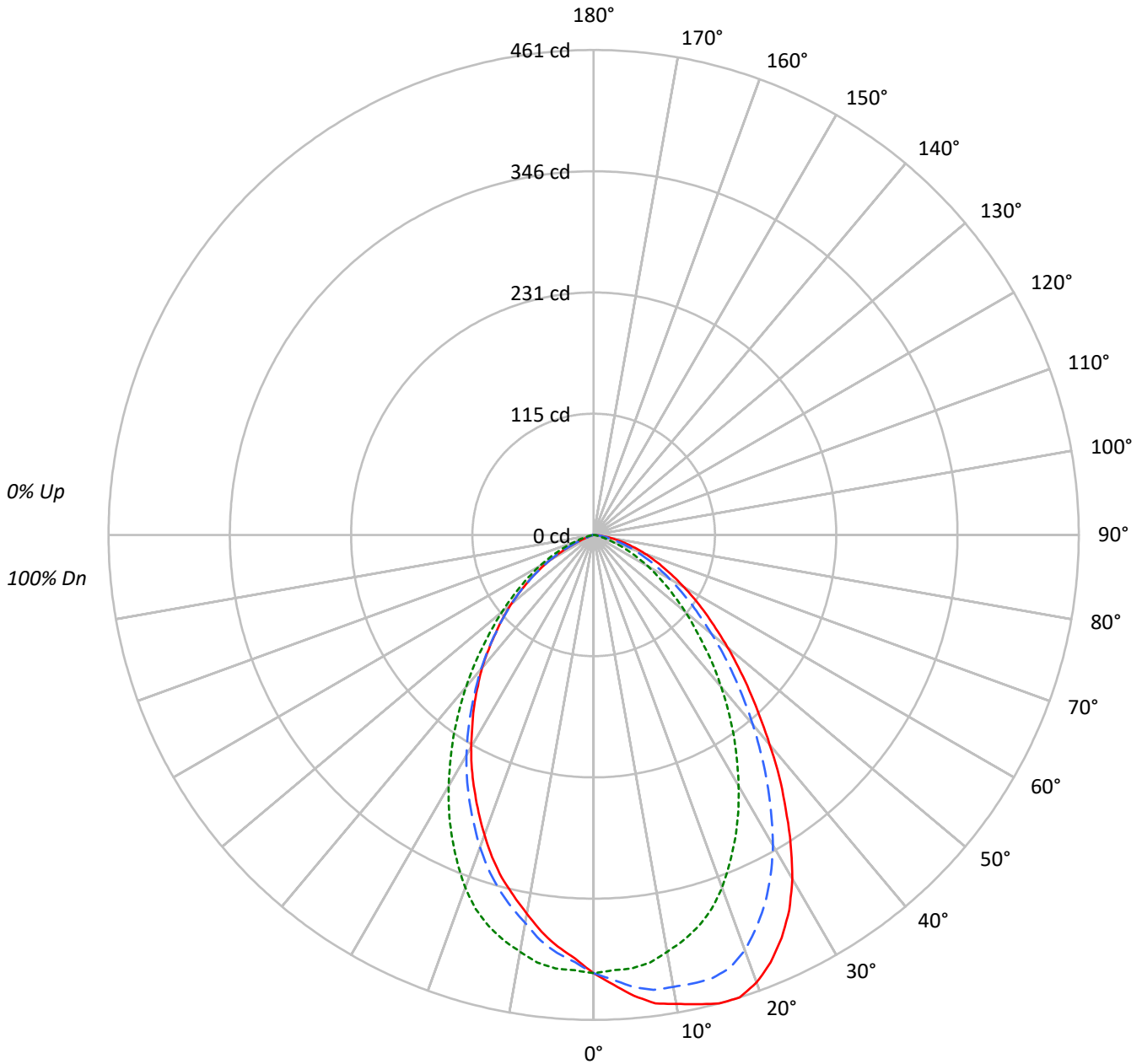
Lumens per Lamp: N/A  
Luminaire Lumens: 719.6 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P581458  
CATALOG NUMBER: HCC4W07D010MB-HM40525835-41WWBB

### Luminous Intensity Polar Plot





TEST NUMBER: P581458

CATALOG NUMBER: HCC4W07D010MB-HM40525835-41WWBB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89	89	89		
	2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78	78	78	78	78	78		
	3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69	69	69	69	69	69		
	4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61	61	61	61	61	61		
	5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55	55	55	55	55	55		
	6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49	49	49	49	49	49		
	7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44	44	44	44	44	44		
	8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40	40	40	40	40	40		
	9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37	37	37	37	37	37		
	10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34	34	34	34	34	34		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	51386	51386	51386
5°	54442	51223	48635
10°	56700	50400	45791
15°	58868	49189	43059
20°	59422	46834	39825
25°	57501	43306	36460
30°	53766	39239	33157
35°	47914	34889	29799
40°	41880	30352	26535
45°	36492	25747	22956
50°	31835	21837	19669
55°	27892	18085	15935
60°	24422	14629	11718
65°	21247	10886	6567
70°	18609	7069	2128
75°	15250	3670	524
80°	11365	1705	426
85°	6793	849	849



TEST NUMBER: P581458  
 CATALOG NUMBER: HCC4W07D010MB-HM40525835-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	5.5
10°-20°	110.0	15.3
20°-30°	152.1	21.1
30°-40°	153.0	21.3
40°-50°	123.5	17.2
50°-60°	83.5	11.6
60°-70°	42.5	5.9
70°-80°	13.6	1.9
80°-90°	2.1	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°	301.5	41.9
0°-40°	454.5	63.2
0°-60°	661.4	91.9
0°-90°	719.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	719.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	417	417	417	417	417	
5°	440	431	414	399	393	42
15°	461	436	385	348	337	130
25°	422	386	318	279	268	193
35°	318	288	232	203	198	199
45°	209	187	148	132	132	162
55°	130	112	84	74	74	117
65°	73	59	37	24	22	73
75°	32	22	8	2	1	35
85°	5	2	1	1	1	6
90°	0	0	0	0	0	



TEST NUMBER: P581458

CATALOG NUMBER: HCC4W07D010MB-HM40525835-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6
2.5°	427.9	425.5	423.1	419.0	414.2	409.5	406.5	404.1	403.0
5°	439.7	436.8	431.4	422.5	413.7	405.4	398.9	394.7	392.8
7.5°	449.2	445.1	436.2	423.7	410.0	397.0	388.7	382.8	380.4
10°	452.7	448.0	436.2	419.6	402.4	386.4	374.5	368.6	365.6
12.5°	456.9	451.6	436.8	416.1	394.7	375.7	362.1	354.4	351.4
15°	461.0	453.9	436.2	410.7	385.2	363.2	348.5	340.7	337.2
17.5°	461.0	452.7	431.4	401.8	372.7	349.6	333.0	324.1	321.1
20°	452.7	443.3	420.1	387.6	356.8	331.8	315.8	306.9	303.4
22.5°	439.7	429.0	404.1	370.4	337.8	313.5	297.5	289.2	285.6
25°	422.5	411.8	385.8	350.8	318.2	293.9	279.2	271.4	267.9
27.5°	402.4	390.6	364.4	329.5	297.5	274.4	260.7	253.7	250.7
30°	377.5	366.2	340.7	306.3	275.5	254.2	241.8	235.2	232.8
32.5°	348.5	339.0	314.1	282.1	253.1	233.5	222.3	216.9	214.5
35°	318.2	309.3	287.5	257.8	231.7	213.4	202.7	199.1	197.9
37.5°	289.7	282.1	260.7	233.5	209.7	193.8	184.2	182.0	180.7
40°	260.1	254.8	235.2	210.4	188.5	174.2	166.5	164.8	164.8
42.5°	233.5	227.6	210.4	187.9	168.3	154.1	148.7	146.9	147.6
45°	209.2	203.2	187.3	166.5	147.6	135.6	131.6	131.6	131.6
47.5°	186.6	181.3	166.5	145.2	129.7	120.3	116.2	116.2	116.8
50°	165.9	162.4	145.8	127.5	113.8	104.9	102.0	101.3	102.5
52.5°	146.3	142.2	127.5	110.8	97.8	90.7	87.7	87.1	87.7
55°	129.7	125.1	112.0	96.0	84.1	77.0	73.5	72.8	74.1
57.5°	113.8	110.3	96.6	82.4	71.1	64.0	61.0	59.9	60.4
60°	99.0	95.4	83.0	69.3	59.3	52.1	48.0	46.8	47.5
62.5°	85.4	82.4	70.6	57.5	47.5	40.9	36.8	33.8	34.9
65°	72.8	69.9	59.3	46.2	37.3	30.3	24.2	22.0	22.5
67.5°	62.2	58.7	48.6	36.8	27.9	20.1	13.7	12.4	12.4
70°	51.6	48.0	39.1	28.4	19.6	10.7	5.9	5.9	5.9
72.5°	41.5	38.5	30.3	21.3	12.4	4.8	2.4	2.4	2.4
75°	32.0	29.6	22.5	14.8	7.7	2.4	1.8	1.1	1.1
77.5°	23.7	21.3	16.0	10.1	4.8	1.1	1.1	1.1	1.1
80°	16.0	14.2	10.7	5.9	2.4	0.6	0.6	0.6	0.6
82.5°	9.4	8.3	5.9	3.0	1.1	0.6	0.6	0.6	0.6
85°	4.8	3.5	2.4	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	0.6	0.6	0.6	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)