

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: P592530

Luminaire Tested: **HCC4S05D010MB-HM40525850-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S05D010MB-HM40525850-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

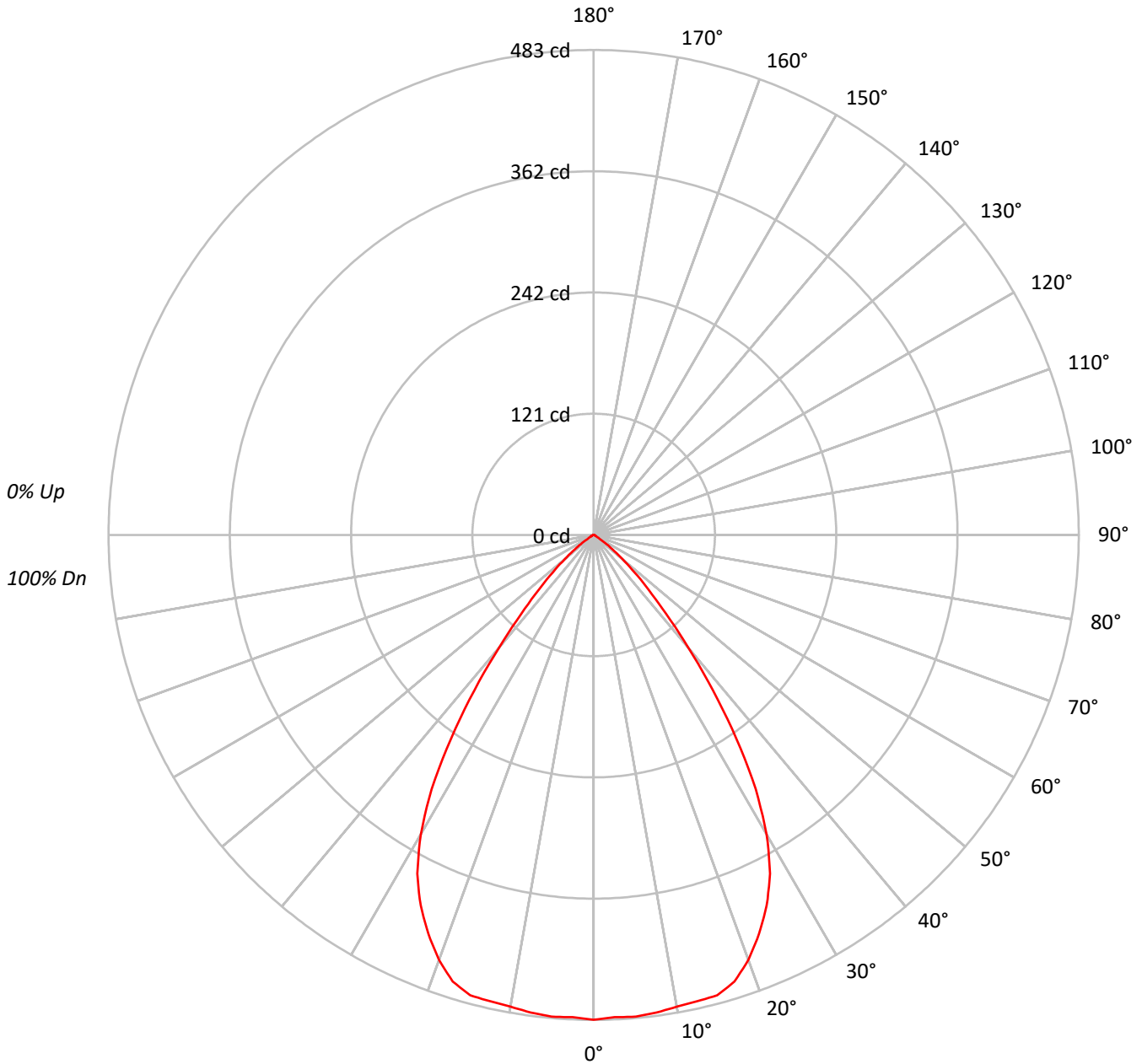
Lumens per Lamp: N/A  
Luminaire Lumens: 597.4 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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### Luminous Intensity Polar Plot



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

RF	20									20									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	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	99	97	97	96	94	94	93	93	91	91	89	89	87	85												
	1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	91	89	87	85	82	80	78	78	75	75	72	72														
	2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	82	80	78	78	75	72	72	72	69	69	68	66														
	3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	75	72	72	69	66	66	66	66	63	63	62	61														
	4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	69	69	68	66	66	66	66	63	63	62	61	61														
	5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	63	63	62	61	61	61	61	61	61	61	61	61	61													
	6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61													
	7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56													
	8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52													
	9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49													
	10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45													

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

	0°
0°	59564
5°	59630
10°	59744
15°	60618
20°	59107
25°	55459
30°	49052
35°	37298
40°	23508
45°	13501
50°	7158
55°	2968
60°	789
65°	671
70°	505
75°	429
80°	355
85°	708



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	7.7
10°-20°	132.9	22.3
20°-30°	185.5	31.1
30°-40°	152.7	25.6
40°-50°	62.9	10.5
50°-60°	14.2	2.4
60°-70°	2.2	0.4
70°-80°	0.9	0.1
80°-90°	0.3	0.1
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°	364.2	61.0
0°-40°	516.9	86.5
0°-60°	594.0	99.4
0°-90°	597.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	483	
5°	482	46
15°	475	133
25°	408	186
35°	248	153
45°	77	63
55°	14	14
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	482.9
2.5°	480.7
5°	481.6
7.5°	479.8
10°	477.0
12.5°	475.7
15°	474.7
17.5°	466.4
20°	450.3
22.5°	430.1
25°	407.5
27.5°	380.3
30°	344.4
32.5°	300.2
35°	247.7
37.5°	194.8
40°	146.0
42.5°	106.3
45°	77.4
47.5°	55.3
50°	37.3
52.5°	23.5
55°	13.8
57.5°	6.9
60°	3.2
62.5°	2.7
65°	2.3
67.5°	1.8
70°	1.4
72.5°	0.9
75°	0.9
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)