

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: P583704

Luminaire Tested: **HCC8W10D010MB-HM80520827-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W10D010MB-HM80520827-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

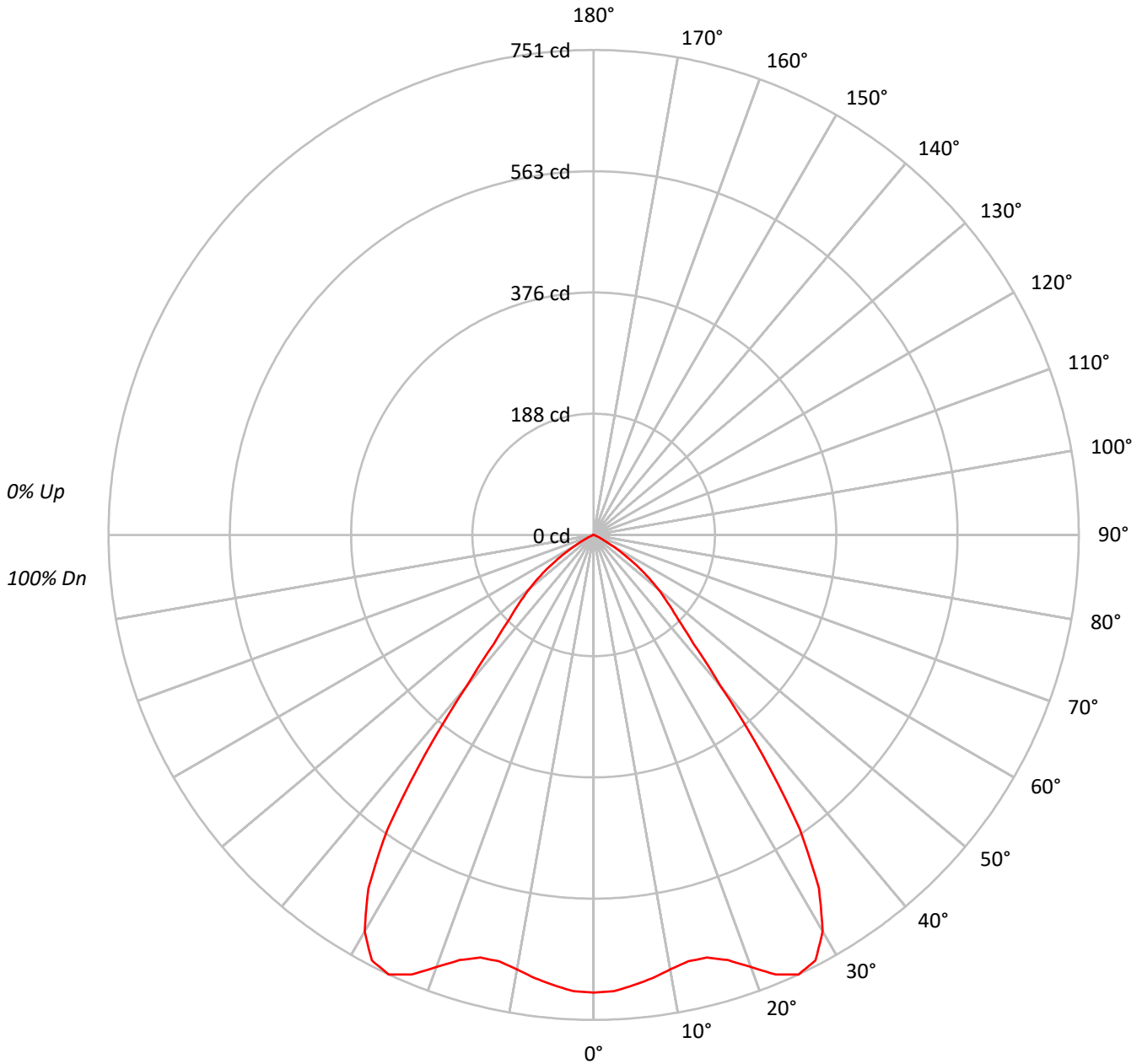
Lumens per Lamp: N/A  
Luminaire Lumens: 1166.5 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92																			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83																			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68																			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62																			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56																			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51																			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47																			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40																			

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

	0°
0°	21857
5°	21677
10°	21389
15°	21635
20°	23361
25°	25549
30°	25238
35°	20938
40°	12322
45°	8050
50°	6241
55°	4150
60°	2017
65°	620
70°	207
75°	191
80°	124
85°	248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.3	5.7
10°-20°	194.7	16.7
20°-30°	340.4	29.2
30°-40°	331.1	28.4
40°-50°	150.6	12.9
50°-60°	69.8	6.0
60°-70°	11.6	1.0
70°-80°	1.4	0.1
80°-90°	0.5	0.0
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°	601.4	51.6
0°-40°	932.5	79.9
0°-60°	1153.0	98.8
0°-90°	1166.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	709	
5°	700	66
15°	678	195
25°	751	340
35°	556	331
45°	185	151
55°	77	70
65°	8	12
75°	2	1
85°	1	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	708.8
2.5°	707.3
5°	700.3
7.5°	692.5
10°	683.1
12.5°	676.1
15°	677.7
17.5°	690.2
20°	711.9
22.5°	736.8
25°	750.9
27.5°	743.1
30°	708.8
32.5°	648.8
35°	556.2
37.5°	428.4
40°	306.1
42.5°	228.3
45°	184.6
47.5°	155.8
50°	130.1
52.5°	103.6
55°	77.2
57.5°	53.0
60°	32.7
62.5°	17.9
65°	8.5
67.5°	3.8
70°	2.3
72.5°	1.6
75°	1.6
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.7
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)