

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: P584853

Luminaire Tested: **HCC8S50D010MB-HM82555927-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S50D010MB-HM82555927-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

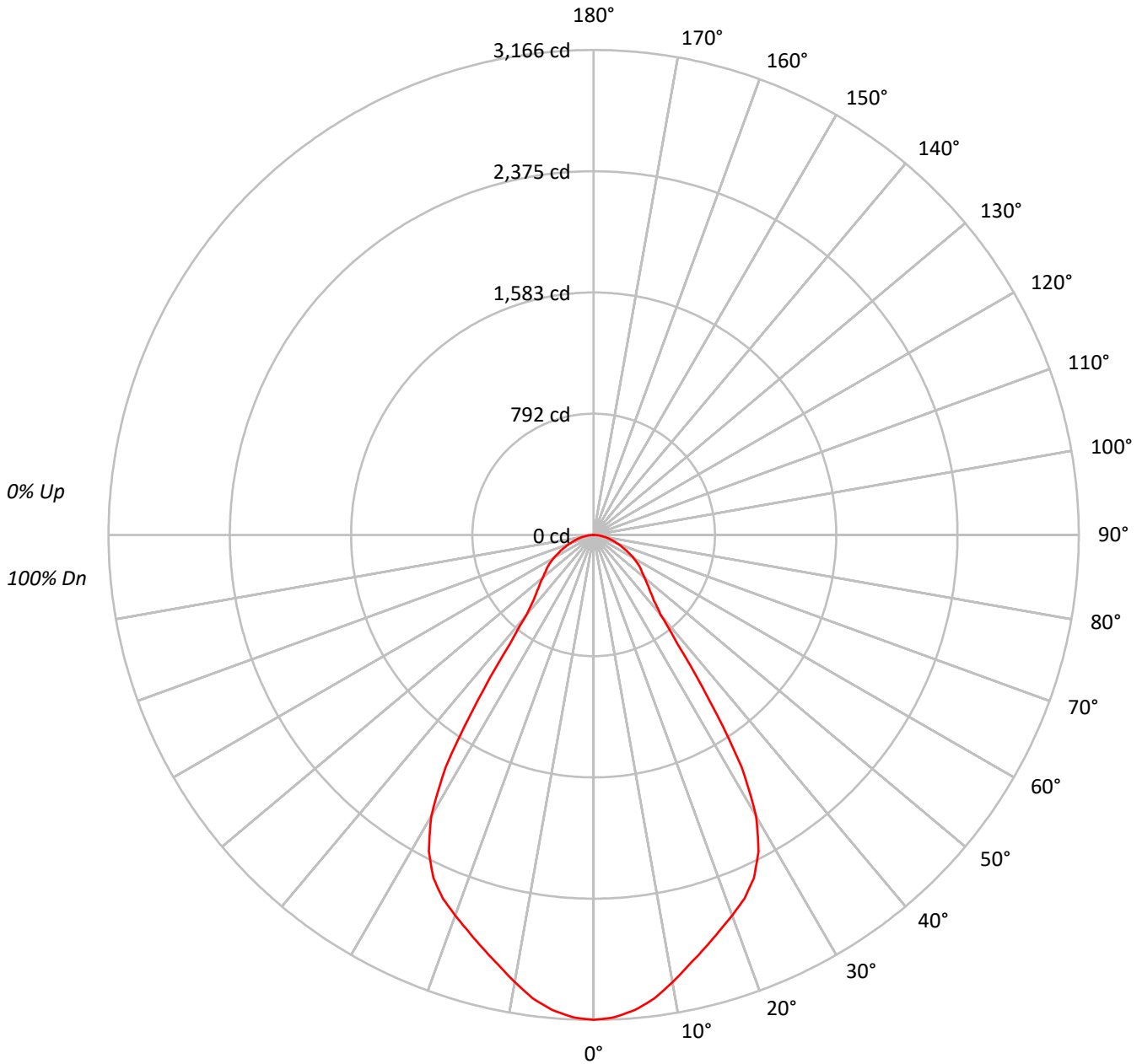
Lumens per Lamp: N/A  
Luminaire Lumens: 4159.0 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																			

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

	0°
0°	97625
5°	96351
10°	92824
15°	89193
20°	86728
25°	84118
30°	75483
35°	49480
40°	27353
45°	22808
50°	20796
55°	19849
60°	18459
65°	16738
70°	15129
75°	13666
80°	12413
85°	11888



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.5	7.0
10°-20°	788.2	19.0
20°-30°	1121.8	27.0
30°-40°	830.3	20.0
40°-50°	411.2	9.9
50°-60°	328.2	7.9
60°-70°	227.9	5.5
70°-80°	122.8	3.0
80°-90°	36.2	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°	2202.5	53.0
0°-40°	3032.8	72.9
0°-60°	3772.2	90.7
0°-90°	4159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4159.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3166	
5°	3113	292
15°	2794	788
25°	2472	1122
35°	1314	830
45°	523	411
55°	369	328
65°	229	228
75°	115	123
85°	34	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3165.9
2.5°	3151.9
5°	3112.7
7.5°	3051.2
10°	2964.5
12.5°	2875.0
15°	2793.9
17.5°	2715.6
20°	2642.9
22.5°	2570.2
25°	2472.3
27.5°	2329.6
30°	2119.9
32.5°	1798.3
35°	1314.4
37.5°	897.8
40°	679.5
42.5°	581.7
45°	523.0
47.5°	475.4
50°	433.5
52.5°	397.1
55°	369.2
57.5°	335.6
60°	299.3
62.5°	262.9
65°	229.4
67.5°	195.8
70°	167.8
72.5°	139.8
75°	114.7
77.5°	92.2
80°	69.9
82.5°	50.4
85°	33.6
87.5°	14.0
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)