

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: P583769

Luminaire Tested: **HCC8S10D010MW-HM80520927-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583769  
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: HCC8S10D010MW-HM80520927-81PSMDW  
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**

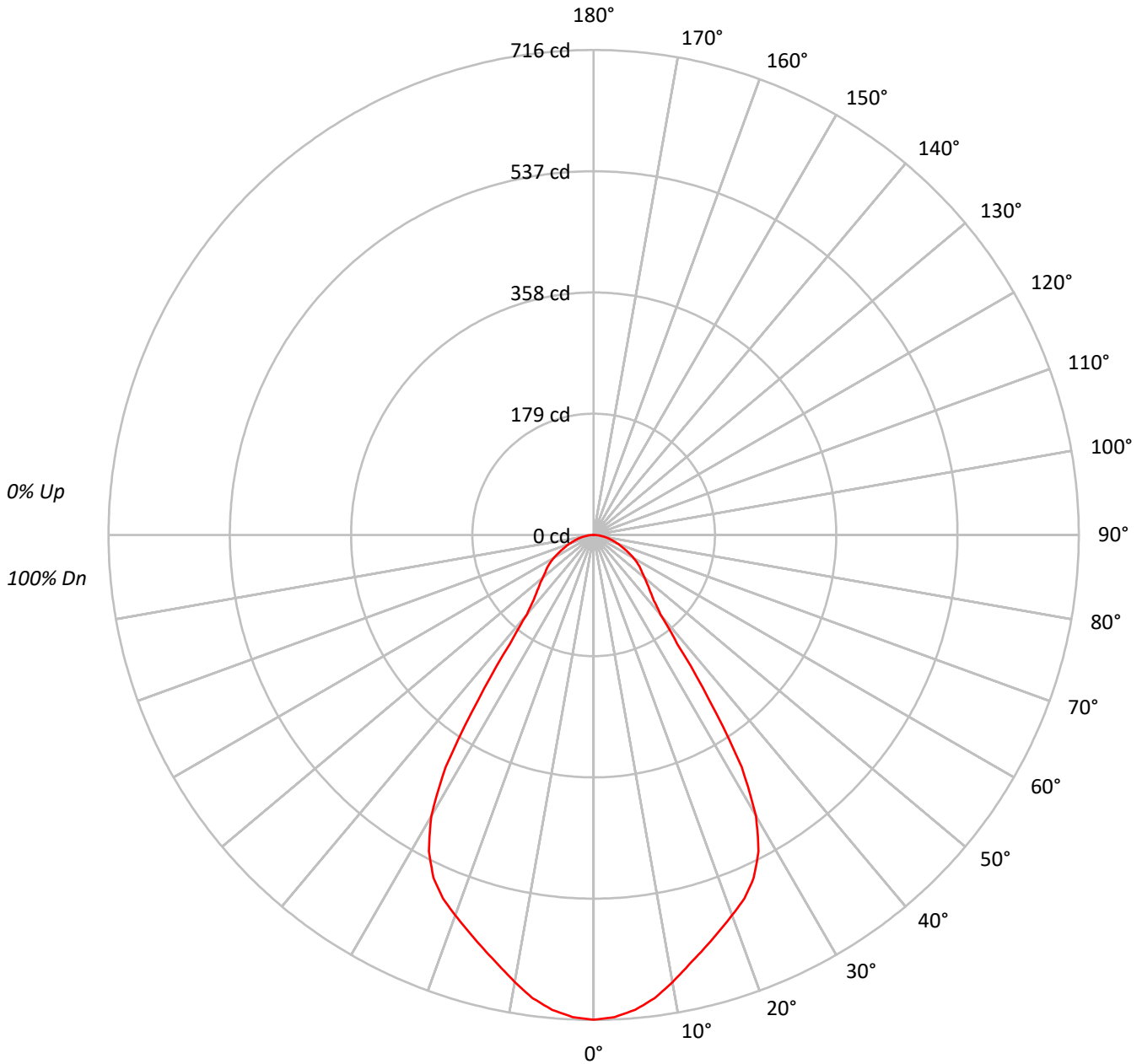
Lumens per Lamp: N/A  
Luminaire Lumens: 940.2 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	22070
5°	21782
10°	20985
15°	20166
20°	19607
25°	19016
30°	17063
35°	11184
40°	6183
45°	5159
50°	4701
55°	4484
60°	4175
65°	3780
70°	3426
75°	3098
80°	2824
85°	2689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	7.0
10°-20°	178.2	19.0
20°-30°	253.6	27.0
30°-40°	187.7	20.0
40°-50°	93.0	9.9
50°-60°	74.2	7.9
60°-70°	51.5	5.5
70°-80°	27.8	3.0
80°-90°	8.2	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°	497.9	53.0
0°-40°	685.6	72.9
0°-60°	852.7	90.7
0°-90°	940.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	716	
5°	704	66
15°	632	178
25°	559	254
35°	297	188
45°	118	93
55°	83	74
65°	52	51
75°	26	28
85°	8	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	715.7
2.5°	712.5
5°	703.7
7.5°	689.8
10°	670.2
12.5°	649.9
15°	631.7
17.5°	613.9
20°	597.5
22.5°	581.0
25°	558.9
27.5°	526.7
30°	479.2
32.5°	406.5
35°	297.1
37.5°	202.9
40°	153.6
42.5°	131.5
45°	118.3
47.5°	107.5
50°	98.0
52.5°	89.8
55°	83.4
57.5°	75.8
60°	67.7
62.5°	59.4
65°	51.8
67.5°	44.2
70°	38.0
72.5°	31.6
75°	26.0
77.5°	20.9
80°	15.9
82.5°	11.4
85°	7.6
87.5°	3.1
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)