

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: P583967

Luminaire Tested: **HCC8S20D010SL-HM80520827-81MDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S20D010SL-HM80520827-81MDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

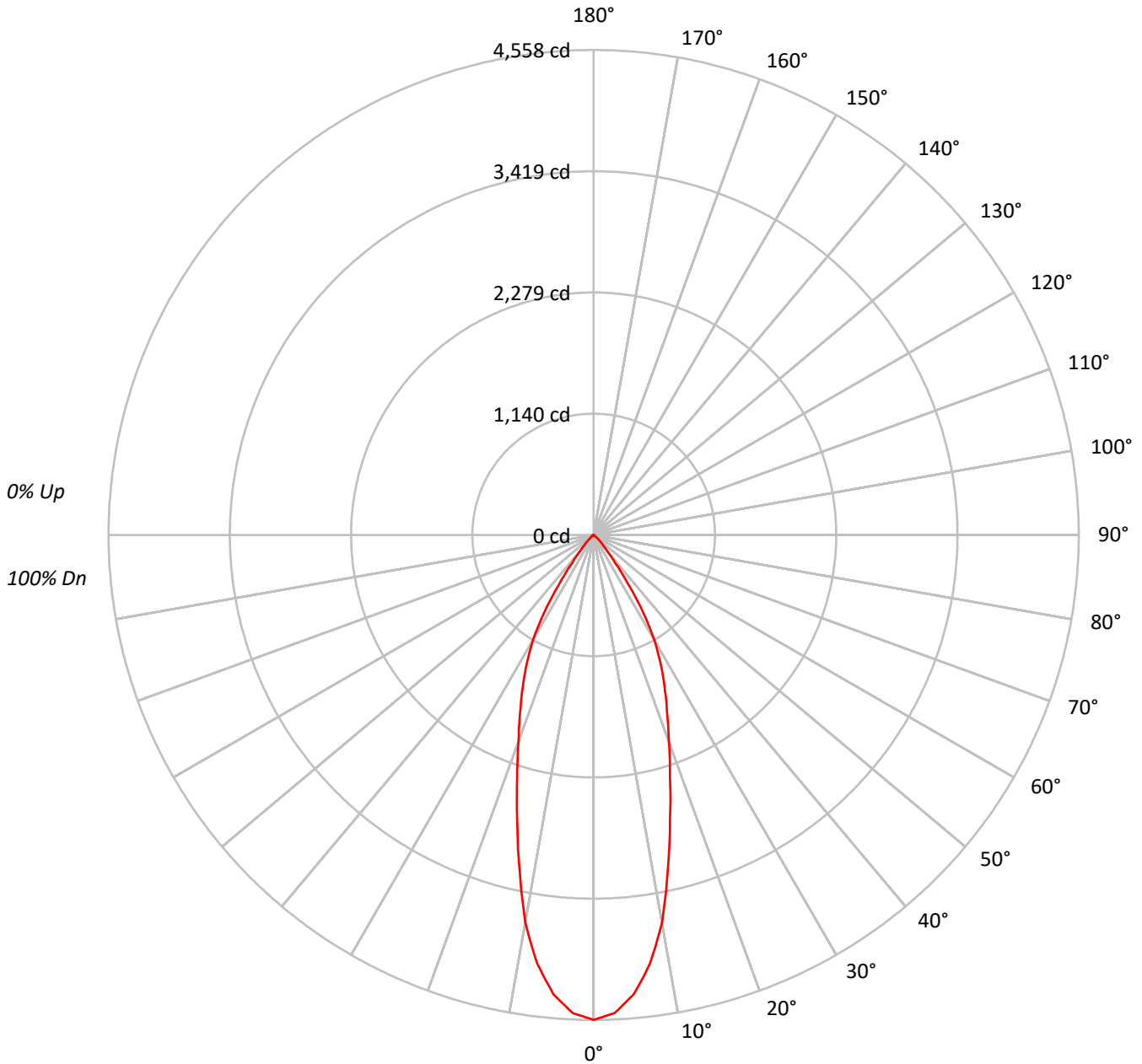
Lumens per Lamp: N/A  
Luminaire Lumens: 2352.6 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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																	
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																																				
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95																																				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89																																				
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84																																				
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79																																				
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75																																				
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71																																				
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67																																				
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64																																				
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61																																				
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58																																				

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

	0°
0°	140564
5°	134115
10°	115789
15°	88538
20°	67747
25°	53598
30°	40488
35°	21540
40°	8204
45°	3938
50°	1679
55°	704
60°	271
65°	219
70°	126
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.3	16.7
10°-20°	774.3	32.9
20°-30°	721.1	30.7
30°-40°	372.1	15.8
40°-50°	75.8	3.2
50°-60°	13.0	0.6
60°-70°	2.5	0.1
70°-80°	0.5	0.0
80°-90°	0.0	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°	1888.7	80.3
0°-40°	2260.8	96.1
0°-60°	2349.5	99.9
0°-90°	2352.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4558	
5°	4333	393
15°	2773	774
25°	1575	721
35°	572	372
45°	90	76
55°	13	13
65°	3	3
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4558.4
2.5°	4497.3
5°	4332.7
7.5°	4061.9
10°	3697.9
12.5°	3220.4
15°	2773.4
17.5°	2386.2
20°	2064.5
22.5°	1802.4
25°	1575.3
27.5°	1359.8
30°	1137.1
32.5°	872.1
35°	572.2
37.5°	331.9
40°	203.8
42.5°	133.9
45°	90.3
47.5°	56.7
50°	35.0
52.5°	20.3
55°	13.1
57.5°	5.8
60°	4.4
62.5°	3.0
65°	3.0
67.5°	1.4
70°	1.4
72.5°	1.4
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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)