

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: P579854

Luminaire Tested: **HCC4S15D010BZ-HM40525830-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S15D010BZ-HM40525830-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

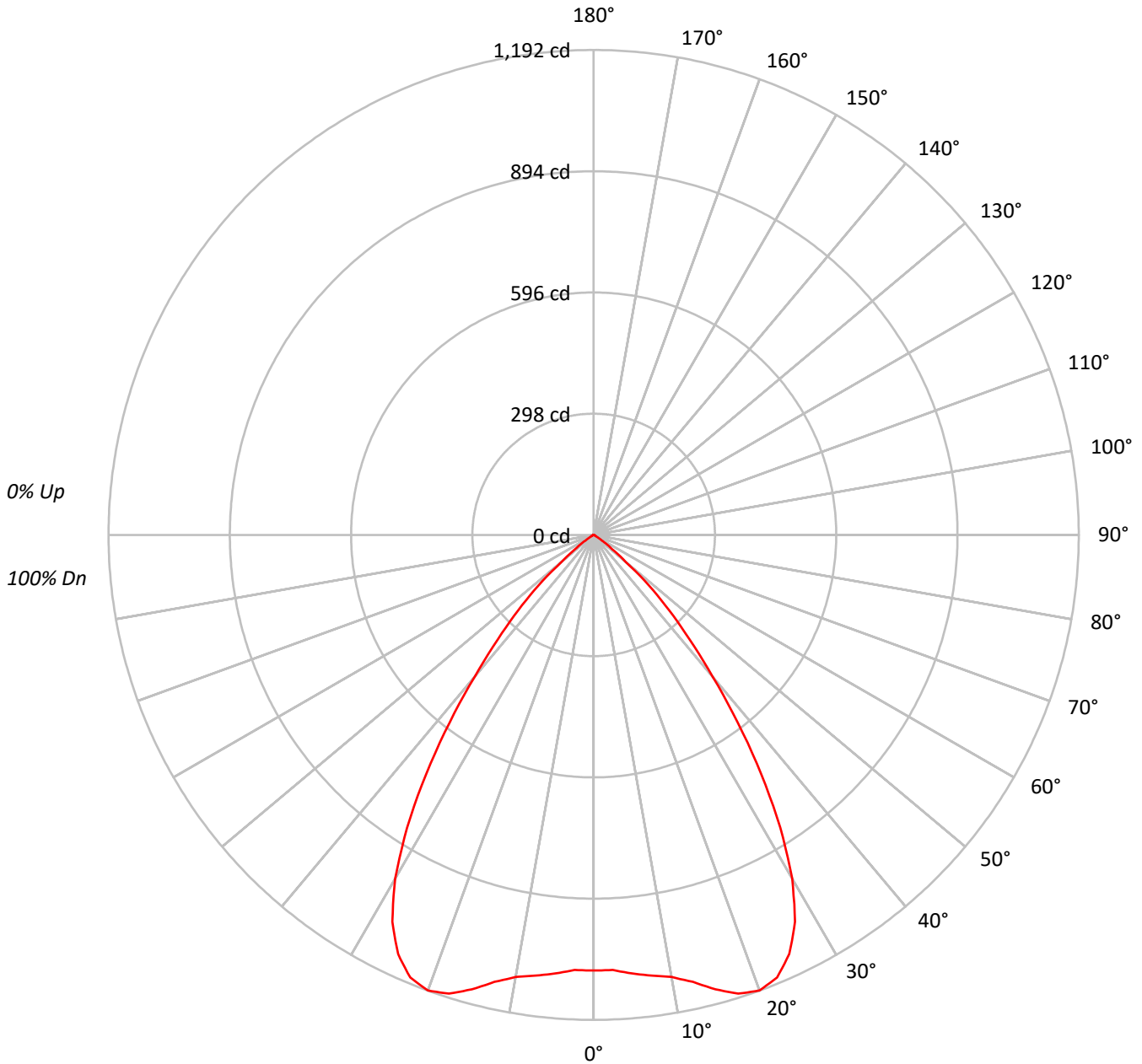
Lumens per Lamp: N/A  
Luminaire Lumens: 1634.3 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90		93	91	88		91	88	86	85
3	101	93	88	84	98	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	86	80	76	93	85	79	75	83	78	74		81	77	73		79	75	72	71
5	89	80	73	69	87	79	73	68	77	72	68		75	71	67		74	70	66	65
6	84	74	67	63	82	73	67	62	72	66	62		70	65	62		69	65	61	60
7	79	69	62	57	78	68	62	57	67	61	57		66	60	57		64	60	56	55
8	75	64	57	53	73	63	57	53	62	57	53		61	56	52		60	56	52	51
9	70	60	53	49	69	59	53	49	58	53	49		57	52	48		56	52	48	47
10	67	56	50	45	66	55	49	45	55	49	45		54	49	45		53	48	45	43

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

	0°
0°	132029
5°	133970
10°	138174
15°	147643
20°	156438
25°	154728
30°	138881
35°	108084
40°	73230
45°	45720
50°	19784
55°	6623
60°	1653
65°	1138
70°	685
75°	429
80°	639
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.9	6.4
10°-20°	328.2	20.1
20°-30°	514.2	31.5
30°-40°	443.8	27.2
40°-50°	204.1	12.5
50°-60°	34.7	2.1
60°-70°	3.9	0.2
70°-80°	1.3	0.1
80°-90°	0.1	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°	946.4	57.9
0°-40°	1390.2	85.1
0°-60°	1629.0	99.7
0°-90°	1634.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1070	
5°	1082	104
15°	1156	328
25°	1137	514
35°	718	444
45°	262	204
55°	31	35
65°	4	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1070.4
2.5°	1070.4
5°	1082.0
7.5°	1092.5
10°	1103.2
12.5°	1125.3
15°	1156.2
17.5°	1182.1
20°	1191.8
22.5°	1177.4
25°	1136.9
27.5°	1071.4
30°	975.1
32.5°	853.7
35°	717.8
37.5°	581.0
40°	454.8
42.5°	347.8
45°	262.1
47.5°	184.1
50°	103.1
52.5°	56.8
55°	30.8
57.5°	15.5
60°	6.7
62.5°	4.8
65°	3.9
67.5°	2.8
70°	1.9
72.5°	1.9
75°	0.9
77.5°	0.9
80°	0.9
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)