

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: P592622

Luminaire Tested: **HCC4S15D010BZ-HM40525850-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S15D010BZ-HM40525850-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

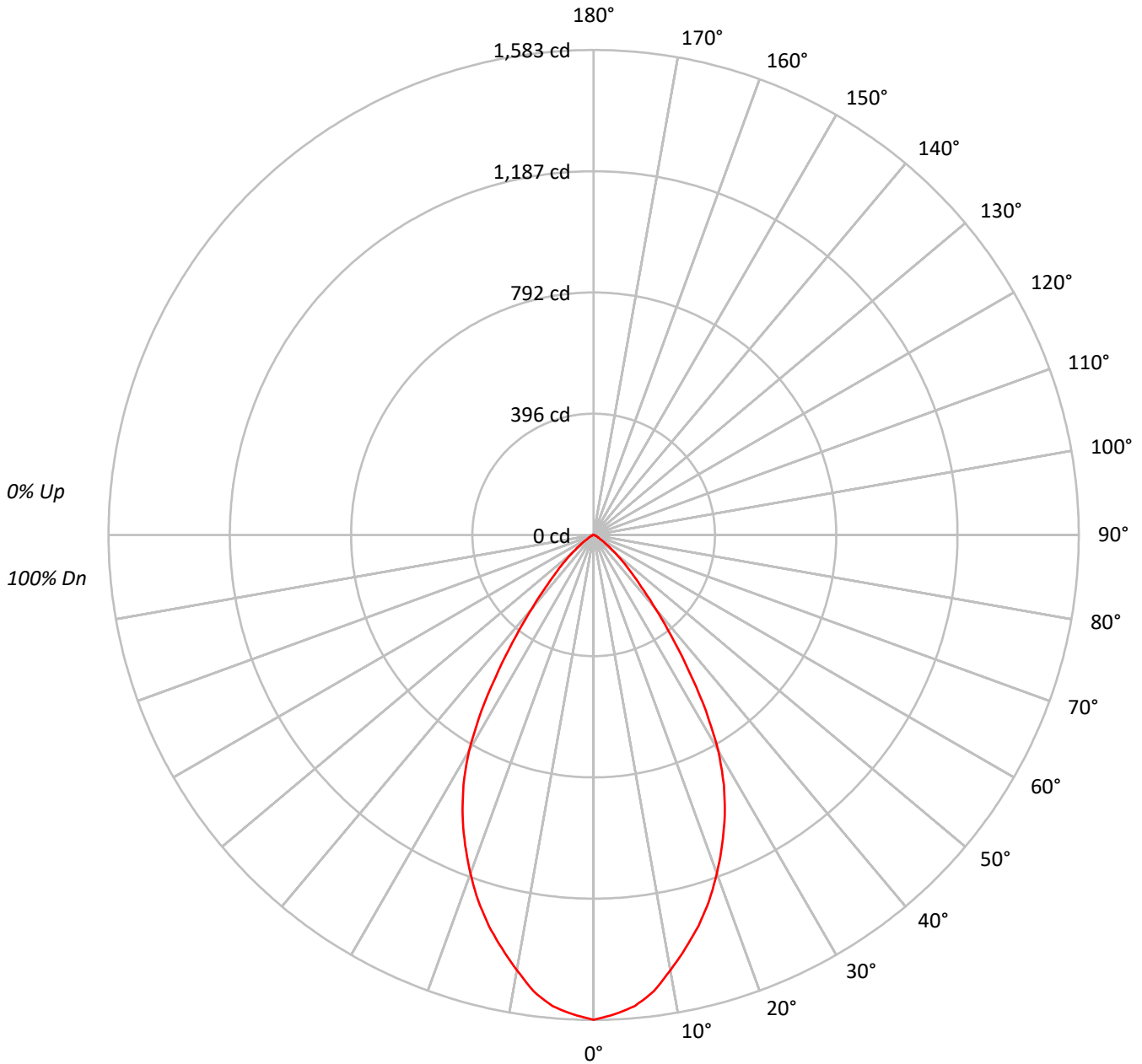
Lumens per Lamp: N/A  
Luminaire Lumens: 1508.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	86
3	101	95	89	85	99	93	88	84	91	86	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76		82	79	75		81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70		77	73	70		76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60		68	63	60		67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56		64	59	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	52		61	56	52		60	55	52	51
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57	52	49	47

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

	0°
0°	195231
5°	191148
10°	180646
15°	168713
20°	154298
25°	137784
30°	115708
35°	81387
40°	50221
45°	30073
50°	17712
55°	8817
60°	4539
65°	2977
70°	1839
75°	1477
80°	710
85°	1415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	9.6
10°-20°	369.3	24.5
20°-30°	460.6	30.5
30°-40°	339.3	22.5
40°-50°	139.5	9.3
50°-60°	40.8	2.7
60°-70°	10.5	0.7
70°-80°	3.2	0.2
80°-90°	0.7	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°	974.0	64.6
0°-40°	1313.3	87.1
0°-60°	1493.6	99.0
0°-90°	1508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1508.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1583	
5°	1544	144
15°	1321	369
25°	1012	461
35°	540	339
45°	172	140
55°	41	41
65°	10	10
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1582.8
2.5°	1566.3
5°	1543.8
7.5°	1502.8
10°	1442.3
12.5°	1382.7
15°	1321.2
17.5°	1252.5
20°	1175.5
22.5°	1095.5
25°	1012.4
27.5°	920.1
30°	812.4
32.5°	682.1
35°	540.5
37.5°	415.5
40°	311.9
42.5°	230.8
45°	172.4
47.5°	127.2
50°	92.3
52.5°	63.6
55°	41.0
57.5°	24.7
60°	18.4
62.5°	13.3
65°	10.2
67.5°	7.2
70°	5.1
72.5°	4.1
75°	3.1
77.5°	2.0
80°	1.0
82.5°	1.0
85°	1.0
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)