

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: P583909

Luminaire Tested: **HCC8S15D010BZ-HM80520927-81WDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S15D010BZ-HM80520927-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

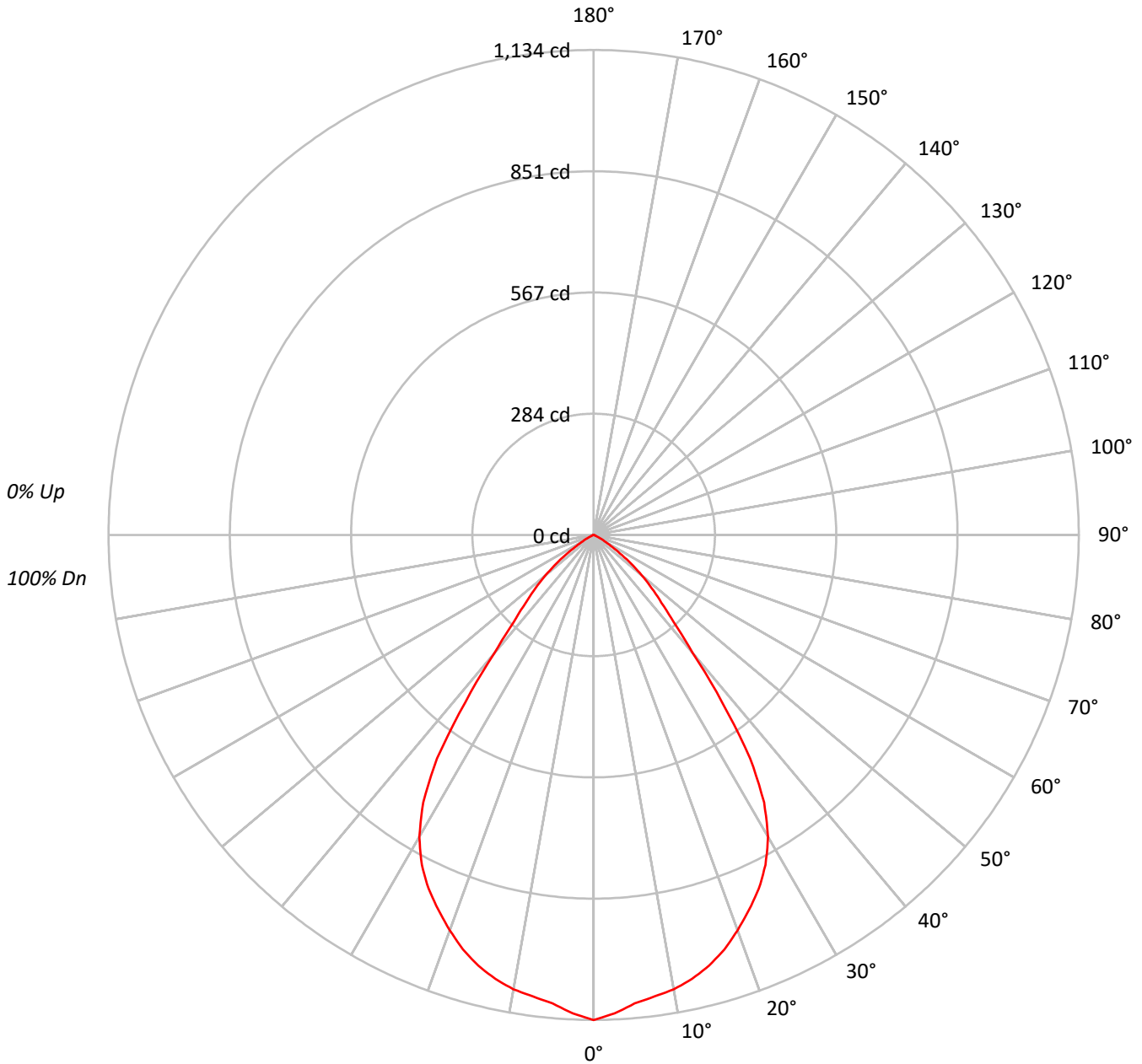
Lumens per Lamp: N/A  
Luminaire Lumens: 1458.2 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																											
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84																											
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77																											
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70																											
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																											
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																											
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54																											
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																											
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																											
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																											

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

	0°
0°	34984
5°	34043
10°	33786
15°	33284
20°	32274
25°	31067
30°	29023
35°	24017
40°	14499
45°	9768
50°	7033
55°	4016
60°	1770
65°	635
70°	243
75°	95
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	7.2
10°-20°	293.0	20.1
20°-30°	417.9	28.7
30°-40°	380.6	26.1
40°-50°	179.5	12.3
50°-60°	70.6	4.8
60°-70°	11.3	0.8
70°-80°	0.8	0.1
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°	815.4	55.9
0°-40°	1196.0	82.0
0°-60°	1446.1	99.2
0°-90°	1458.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1458.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1134	
5°	1100	104
15°	1043	293
25°	913	418
35°	638	381
45°	224	180
55°	75	71
65°	9	11
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1134.5
2.5°	1119.8
5°	1099.8
7.5°	1088.5
10°	1079.0
12.5°	1063.3
15°	1042.6
17.5°	1016.4
20°	983.5
22.5°	948.8
25°	913.1
27.5°	869.8
30°	815.1
32.5°	741.3
35°	638.0
37.5°	493.1
40°	360.2
42.5°	276.9
45°	224.0
47.5°	184.0
50°	146.6
52.5°	110.3
55°	74.7
57.5°	46.9
60°	28.7
62.5°	17.4
65°	8.7
67.5°	4.3
70°	2.7
72.5°	0.8
75°	0.8
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)