

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: P584604

Luminaire Tested: **HCC8S40D010BZ-HM82555930-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S40D010BZ-HM82555930-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

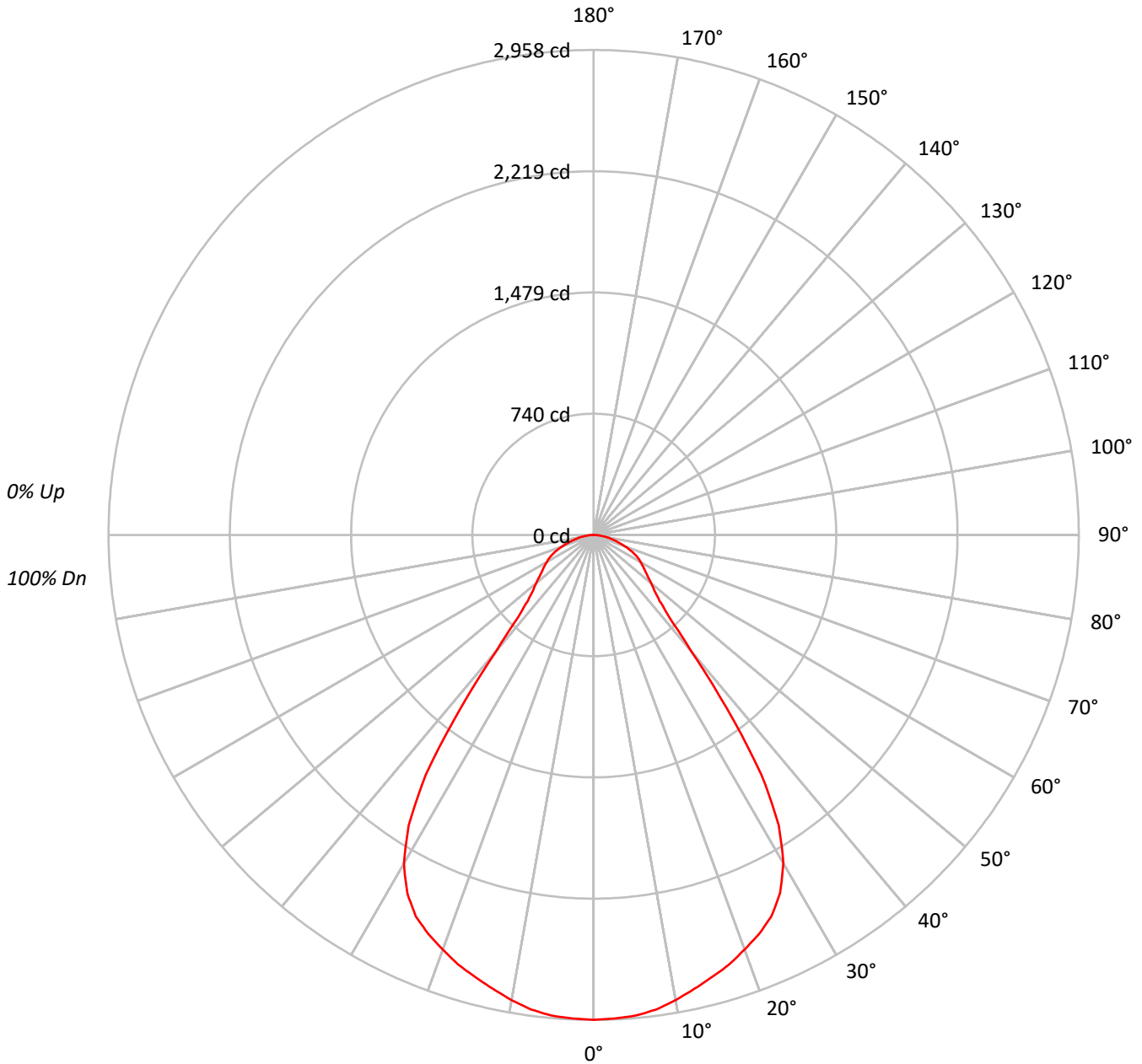
Lumens per Lamp: N/A  
Luminaire Lumens: 4562.4 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

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

	0°
0°	91214
5°	91101
10°	90204
15°	89119
20°	88296
25°	87306
30°	82376
35°	67078
40°	37062
45°	24739
50°	21938
55°	20596
60°	20327
65°	20153
70°	18203
75°	16275
80°	14242
85°	12596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.9	6.1
10°-20°	788.2	17.3
20°-30°	1171.3	25.7
30°-40°	1054.8	23.1
40°-50°	467.6	10.2
50°-60°	346.3	7.6
60°-70°	269.3	5.9
70°-80°	146.0	3.2
80°-90°	40.0	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°	2238.4	49.1
0°-40°	3293.2	72.2
0°-60°	4107.1	90.0
0°-90°	4562.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4562.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2958	
5°	2943	279
15°	2792	788
25°	2566	1171
35°	1782	1055
45°	567	468
55°	383	346
65°	276	269
75°	137	146
85°	36	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2958.0
2.5°	2952.0
5°	2943.1
7.5°	2919.4
10°	2880.8
12.5°	2836.2
15°	2791.6
17.5°	2747.1
20°	2690.7
22.5°	2634.3
25°	2566.0
27.5°	2462.0
30°	2313.5
32.5°	2099.6
35°	1781.9
37.5°	1330.5
40°	920.7
42.5°	680.1
45°	567.3
47.5°	501.9
50°	457.3
52.5°	415.8
55°	383.1
57.5°	356.4
60°	329.6
62.5°	305.9
65°	276.2
67.5°	240.5
70°	201.9
72.5°	169.3
75°	136.6
77.5°	106.9
80°	80.2
82.5°	56.4
85°	35.6
87.5°	14.9
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)