

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: P593809

Luminaire Tested: **HCC8S50D010BZ-HM82555950-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S50D010BZ-HM82555950-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

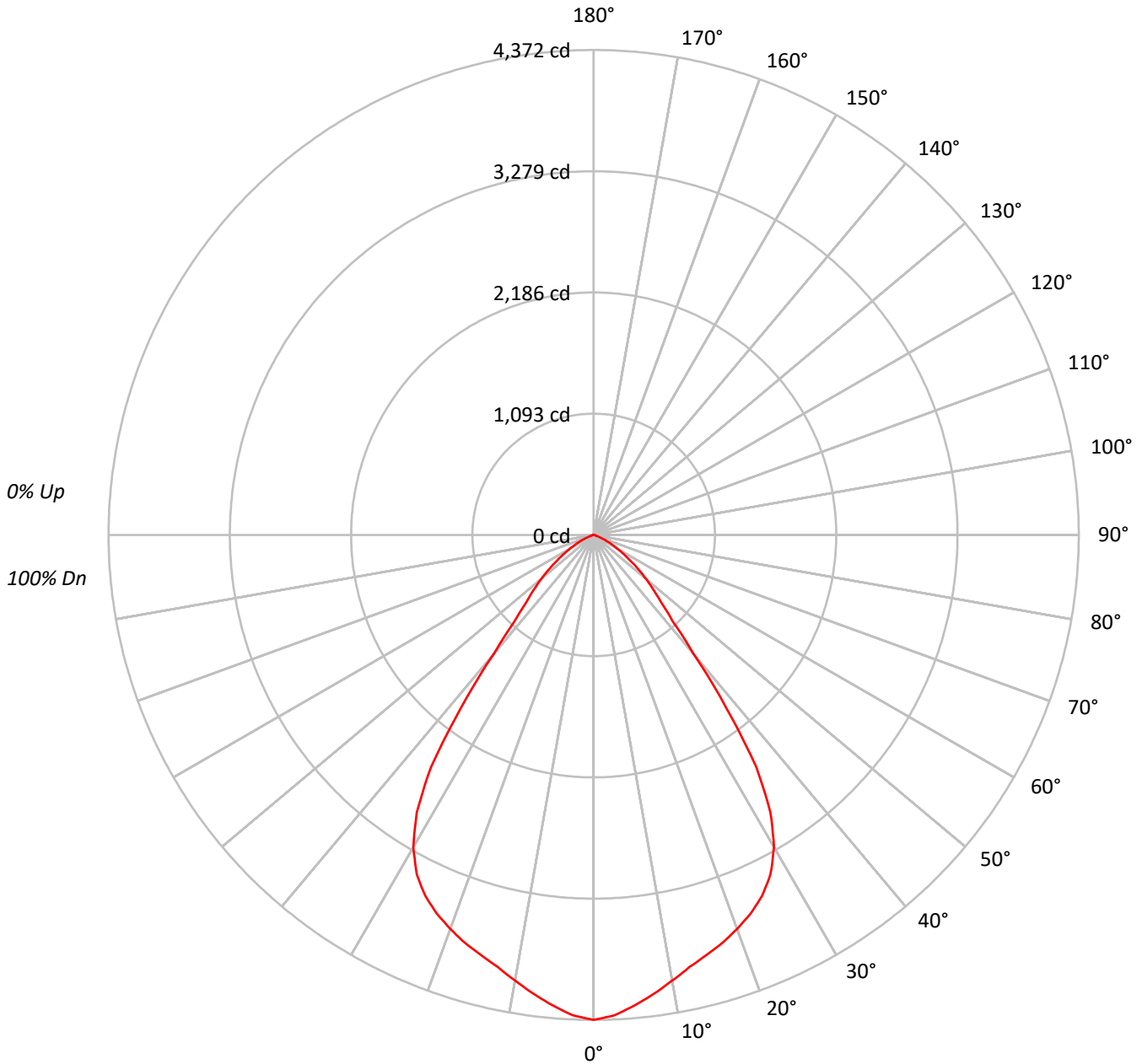
Lumens per Lamp: N/A  
Luminaire Lumens: 5888.7 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68		
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62		
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57		
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

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

	0°
0°	134813
5°	131775
10°	127737
15°	125155
20°	124029
25°	122174
30°	115732
35°	96155
40°	56629
45°	37456
50°	29479
55°	21693
60°	15067
65°	9186
70°	4003
75°	1763
80°	1314
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.9	6.8
10°-20°	1108.3	18.8
20°-30°	1642.1	27.9
30°-40°	1517.3	25.8
40°-50°	699.6	11.9
50°-60°	368.0	6.2
60°-70°	130.0	2.2
70°-80°	20.4	0.3
80°-90°	2.0	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°	3151.3	53.5
0°-40°	4668.6	79.3
0°-60°	5736.2	97.4
0°-90°	5888.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5888.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4372	
5°	4257	401
15°	3920	1108
25°	3591	1642
35°	2554	1517
45°	859	700
55°	404	368
65°	126	130
75°	15	20
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4371.9
2.5°	4334.9
5°	4257.1
7.5°	4172.0
10°	4079.5
12.5°	3990.6
15°	3920.4
17.5°	3857.3
20°	3779.6
22.5°	3694.5
25°	3590.8
27.5°	3450.2
30°	3250.3
32.5°	2965.2
35°	2554.3
37.5°	1962.0
40°	1406.8
42.5°	1055.0
45°	858.9
47.5°	729.2
50°	614.5
52.5°	503.5
55°	403.5
57.5°	318.3
60°	244.3
62.5°	185.1
65°	125.9
67.5°	74.0
70°	44.4
72.5°	26.0
75°	14.8
77.5°	11.1
80°	7.4
82.5°	3.7
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)