

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: P593638

Luminaire Tested: **HCC8W25D010BZ-HM82555950-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W25D010BZ-HM82555950-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

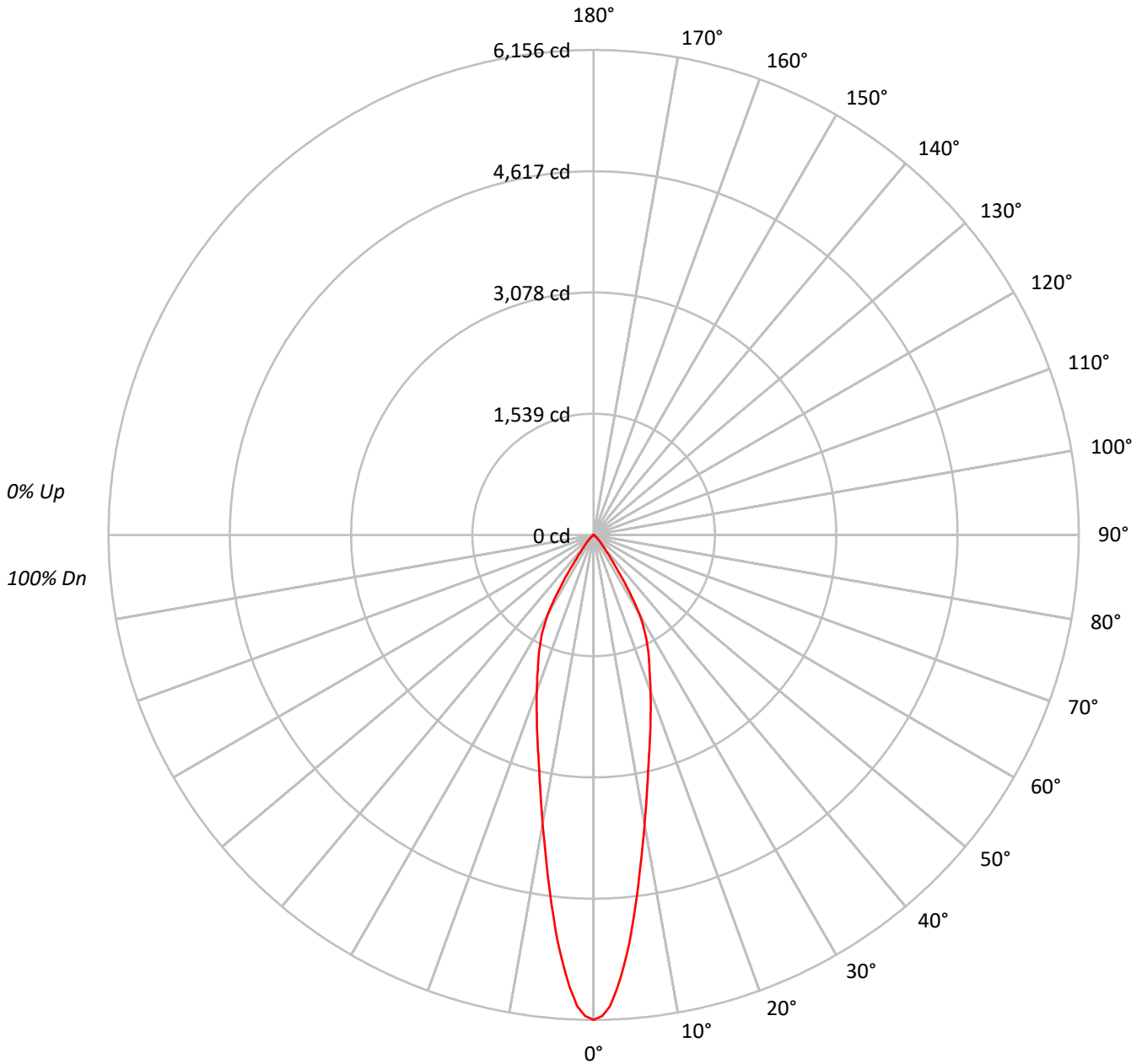
Lumens per Lamp: N/A  
Luminaire Lumens: 2385.7 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89		
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84		
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80		
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75		
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72		
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68		
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65		
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62		
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59		

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

	0°
0°	189828
5°	160825
10°	116687
15°	87628
20°	69139
25°	55769
30°	41325
35°	16744
40°	7065
45°	3785
50°	1698
55°	855
60°	549
65°	394
70°	316
75°	214
80°	320
85°	637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.1	18.7
10°-20°	770.9	32.3
20°-30°	745.4	31.2
30°-40°	327.4	13.7
40°-50°	70.7	3.0
50°-60°	15.9	0.7
60°-70°	5.5	0.2
70°-80°	2.1	0.1
80°-90°	1.7	0.1
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°	1962.4	82.3
0°-40°	2289.8	96.0
0°-60°	2376.4	99.6
0°-90°	2385.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2385.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6156	
5°	5196	446
15°	2745	771
25°	1639	745
35°	445	327
45°	87	71
55°	16	16
65°	5	5
75°	2	2
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6156.0
1°	6109.9
2°	5984.1
3°	5757.3
4°	5486.2
5°	5195.6
6°	4878.3
7°	4559.4
8°	4260.0
9°	3981.8
10°	3726.6
11°	3485.5
12°	3269.4
13°	3072.7
14°	2899.1
15°	2744.9
17.5°	2399.4
20°	2106.9
22.5°	1850.0
25°	1639.1
27.5°	1424.7
30°	1160.6
32.5°	788.6
35°	444.8
37.5°	262.3
40°	175.5
42.5°	124.0
45°	86.8
47.5°	56.7
50°	35.4
52.5°	21.3
55°	15.9
57.5°	12.4
60°	8.9
62.5°	7.1
65°	5.4
67.5°	3.5
70°	3.5
72.5°	1.8
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8

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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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85°		1.8
87.5°		1.8

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(END OF REPORT)