

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: P584136

Luminaire Tested: **HCC8W25D010MW-HM82555835-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W25D010MW-HM82555835-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

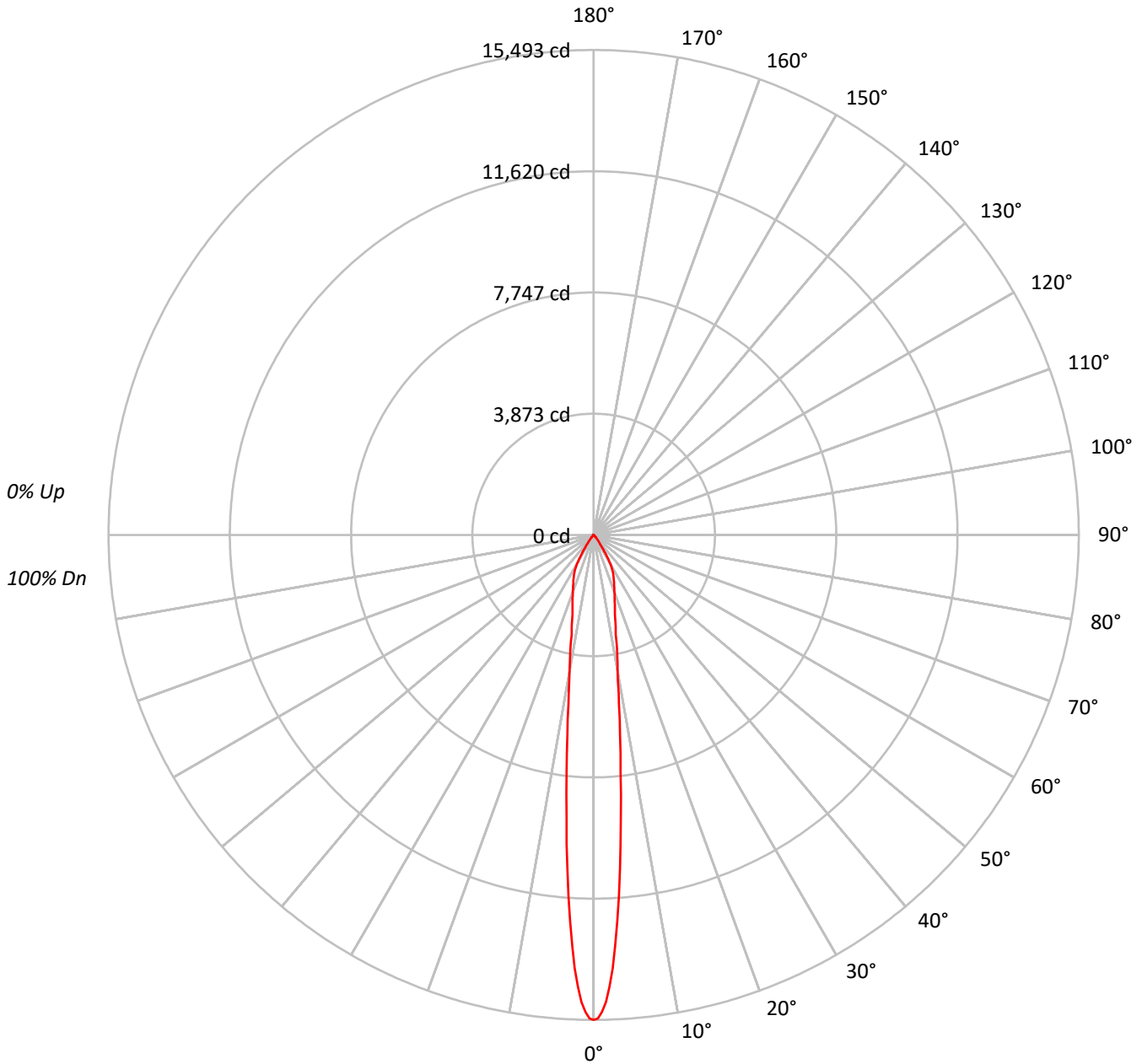
Lumens per Lamp: N/A  
Luminaire Lumens: 2538.3 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91		
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87		
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83		
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80		
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76		
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73		
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71		
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68		
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66		

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

	0°
0°	477759
5°	306446
10°	138430
15°	83526
20°	63652
25°	51400
30°	37665
35°	13638
40°	5092
45°	2311
50°	739
55°	183
60°	105
65°	124
70°	0
75°	0
80°	302
85°	601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	755.1	29.7
10°-20°	766.9	30.2
20°-30°	686.5	27.0
30°-40°	276.6	10.9
40°-50°	45.4	1.8
50°-60°	4.1	0.2
60°-70°	1.5	0.1
70°-80°	1.1	0.0
80°-90°	1.6	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°	2208.5	87.0
0°-40°	2485.1	97.9
0°-60°	2534.5	99.9
0°-90°	2538.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15493	
5°	9900	755
15°	2616	767
25°	1511	687
35°	362	277
45°	53	45
55°	3	4
65°	2	1
75°	0	1
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	15493.4
0.5°	15445.6
1°	15245.6
1.5°	14924.4
2°	14437.3
2.5°	13861.3
3°	13140.1
3.5°	12348.9
4°	11566.2
4.5°	10689.5
5°	9900.0
5.5°	9040.4
6°	8343.1
6.5°	7616.8
7°	7046.1
7.5°	6442.8
8°	5957.4
8.5°	5470.4
9°	5104.6
9.5°	4701.4
10°	4421.0
12.5°	3260.7
15°	2616.4
17.5°	2235.3
20°	1939.7
22.5°	1703.9
25°	1510.7
27.5°	1317.6
30°	1057.8
32.5°	680.2
35°	362.3
37.5°	200.0
40°	126.5
42.5°	83.8
45°	53.0
47.5°	32.4
50°	15.4
52.5°	5.1
55°	3.4
57.5°	1.7
60°	1.7
62.5°	1.7
65°	1.7



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	1.7
80°	1.7
82.5°	1.7
85°	1.7
87.5°	1.7
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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67.5°		1.7
70°		0.0

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(END OF REPORT)