

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: P584235

Luminaire Tested: **HCC8W30D010BZ-HM82555827-81MDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W30D010BZ-HM82555827-81MDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

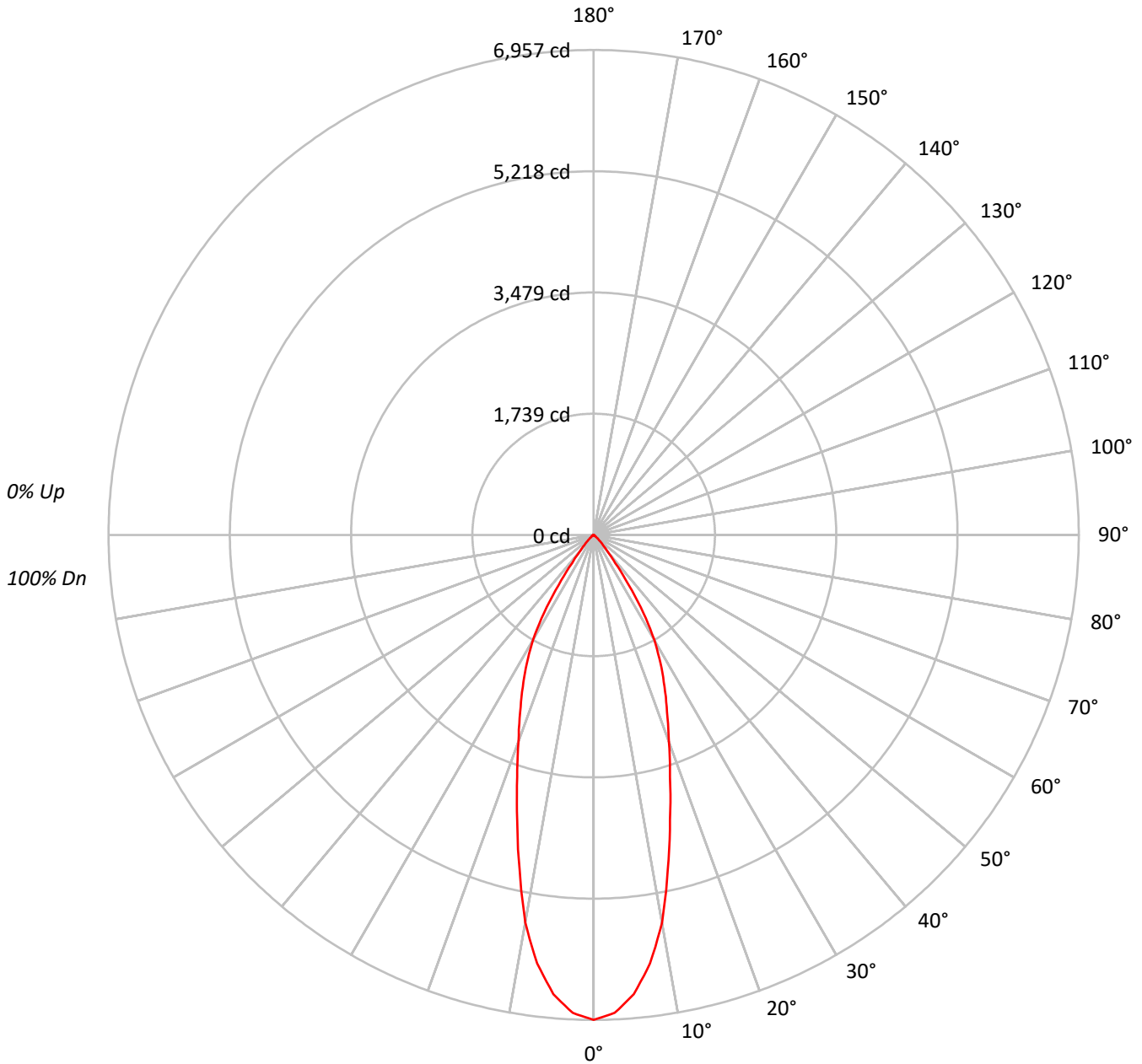
Lumens per Lamp: N/A  
Luminaire Lumens: 3590.6 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89					89			
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79					79			
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	73	81	76	73	79	76	73	78	75	72	71					71			
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67					67			
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64					64			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61					61			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58					58			

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

	0°
0°	214528
5°	204684
10°	176716
15°	135128
20°	103391
25°	81801
30°	61788
35°	32871
40°	12519
45°	6009
50°	2562
55°	1075
60°	413
65°	321
70°	207
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.2	16.7
10°-20°	1181.7	32.9
20°-30°	1100.5	30.7
30°-40°	567.9	15.8
40°-50°	115.7	3.2
50°-60°	19.8	0.6
60°-70°	3.8	0.1
70°-80°	0.9	0.0
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°	2882.5	80.3
0°-40°	3450.3	96.1
0°-60°	3585.8	99.9
0°-90°	3590.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3590.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6957	
5°	6612	600
15°	4233	1182
25°	2404	1101
35°	873	568
45°	138	116
55°	20	20
65°	4	4
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6957.0
2.5°	6863.6
5°	6612.5
7.5°	6199.2
10°	5643.7
12.5°	4915.0
15°	4232.8
17.5°	3641.8
20°	3150.7
22.5°	2750.8
25°	2404.2
27.5°	2075.3
30°	1735.3
32.5°	1331.0
35°	873.2
37.5°	506.6
40°	311.0
42.5°	204.4
45°	137.8
47.5°	86.7
50°	53.4
52.5°	31.2
55°	20.0
57.5°	8.9
60°	6.7
62.5°	4.4
65°	4.4
67.5°	2.3
70°	2.3
72.5°	2.3
75°	0.0
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)