

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: P585232

Luminaire Tested: **HCC8S80D010BZ-HM86080835-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585232  
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: HCC8S80D010BZ-HM86080835-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

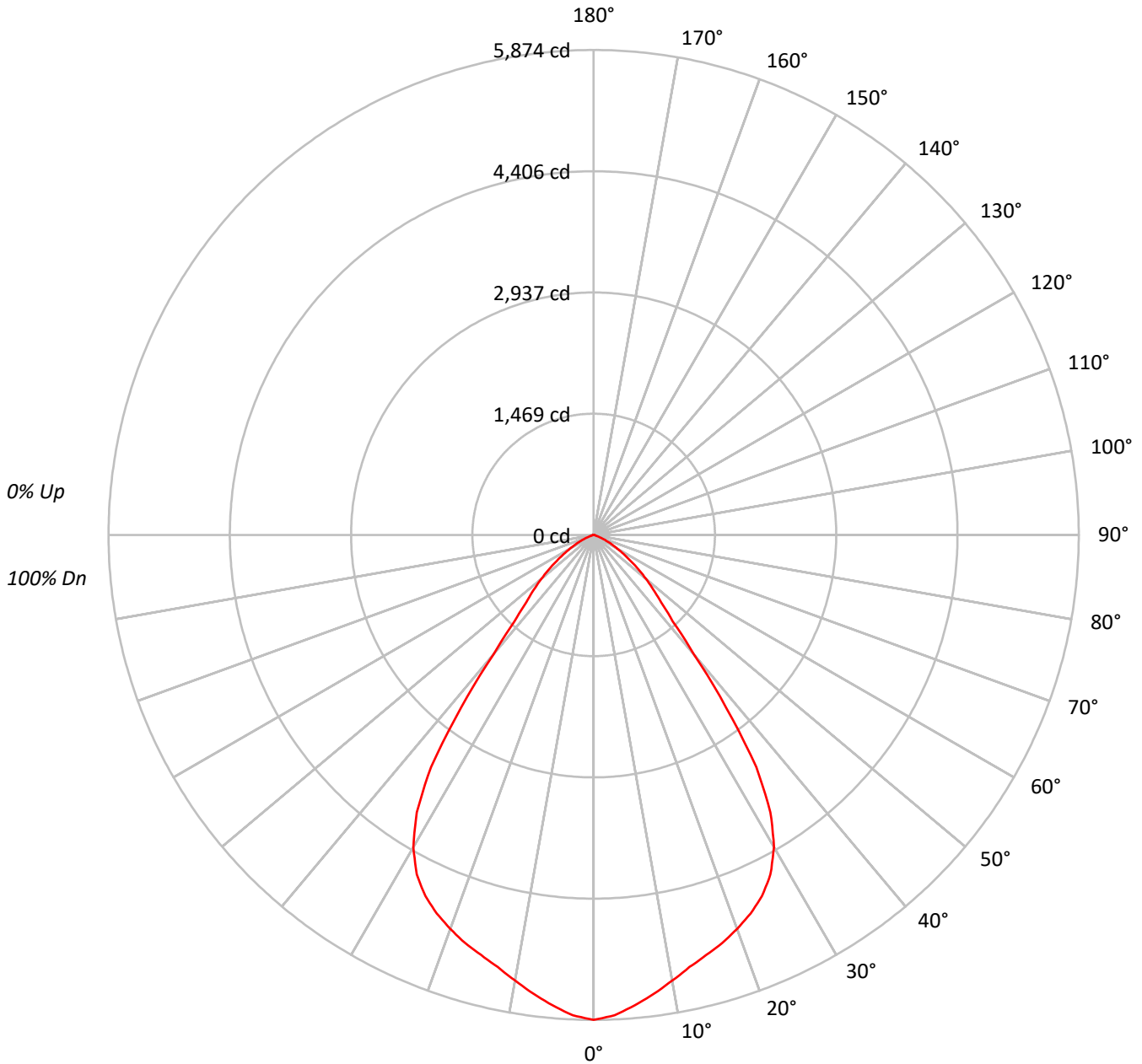
Lumens per Lamp: N/A  
Luminaire Lumens: 7911.5 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): 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	0	
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°	181126
5°	177045
10°	171618
15°	168144
20°	166636
25°	164146
30°	155487
35°	129187
40°	76076
45°	50321
50°	39606
55°	29144
60°	20247
65°	12338
70°	5383
75°	2371
80°	1776
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.6	6.8
10°-20°	1489.1	18.8
20°-30°	2206.1	27.9
30°-40°	2038.6	25.8
40°-50°	939.9	11.9
50°-60°	494.4	6.2
60°-70°	174.7	2.2
70°-80°	27.4	0.3
80°-90°	2.7	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°	4233.8	53.5
0°-40°	6272.4	79.3
0°-60°	7706.7	97.4
0°-90°	7911.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7911.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5874	
5°	5720	539
15°	5267	1489
25°	4824	2206
35°	3432	2039
45°	1154	940
55°	542	494
65°	169	175
75°	20	27
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5873.8
2.5°	5824.1
5°	5719.6
7.5°	5605.2
10°	5480.9
12.5°	5361.6
15°	5267.0
17.5°	5182.5
20°	5078.0
22.5°	4963.6
25°	4824.4
27.5°	4635.3
30°	4366.8
32.5°	3983.9
35°	3431.8
37.5°	2636.0
40°	1889.9
42.5°	1417.5
45°	1153.9
47.5°	979.7
50°	825.6
52.5°	676.4
55°	542.1
57.5°	427.7
60°	328.3
62.5°	248.6
65°	169.1
67.5°	99.5
70°	59.7
72.5°	34.8
75°	19.9
77.5°	14.9
80°	10.0
82.5°	5.0
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)