

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: P593607

Luminaire Tested: **HCC8S20D010BZ-HM80520950-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593607  
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: HCC8S20D010BZ-HM80520950-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

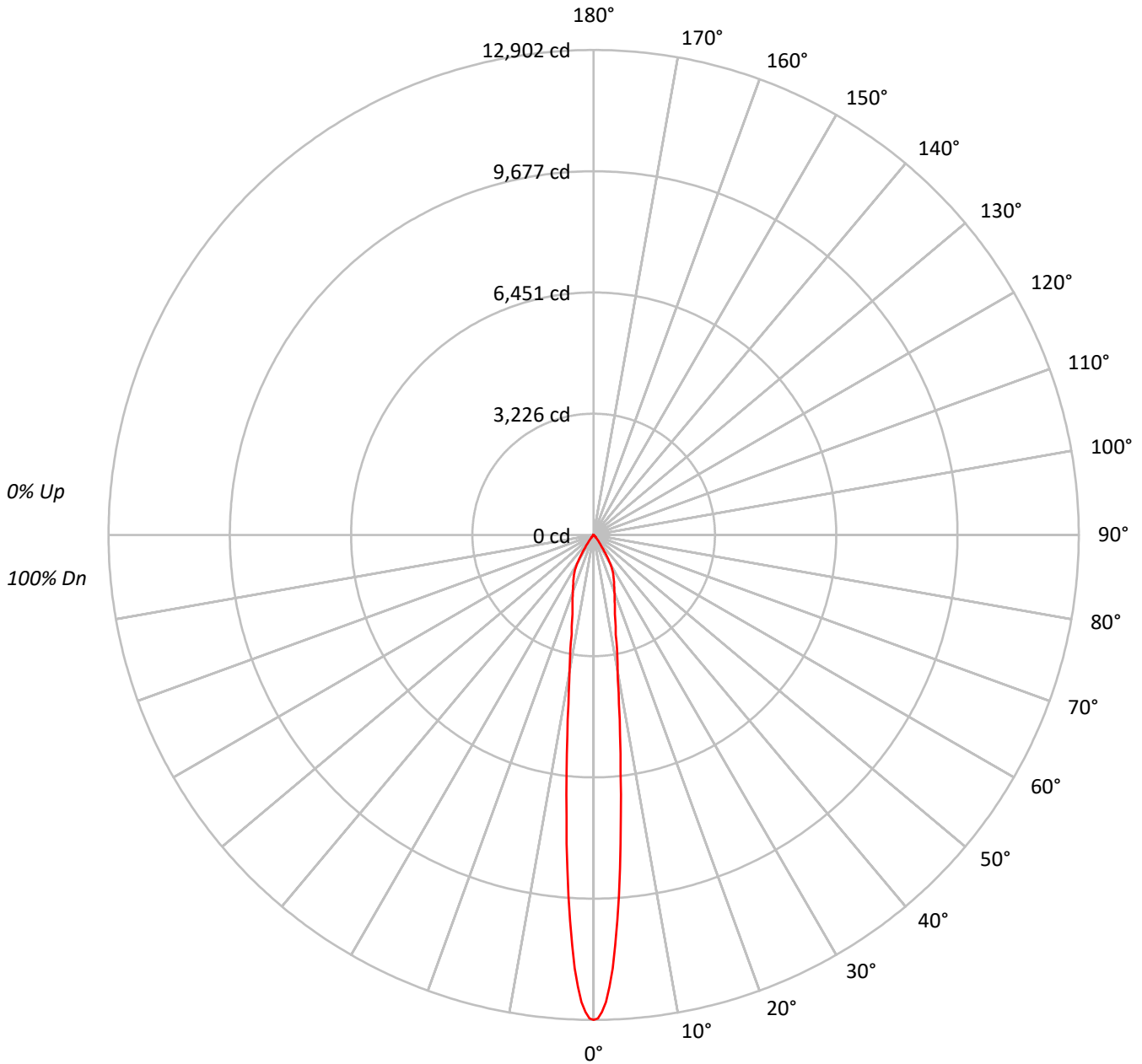
Lumens per Lamp: N/A  
Luminaire Lumens: 2113.8 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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									
RC	80									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	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°	397866
5°	255198
10°	115281
15°	69559
20°	53007
25°	42806
30°	31366
35°	11361
40°	4239
45°	1923
50°	614
55°	151
60°	86
65°	102
70°	0
75°	0
80°	249
85°	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.8	29.7
10°-20°	638.7	30.2
20°-30°	571.7	27.0
30°-40°	230.3	10.9
40°-50°	37.8	1.8
50°-60°	3.4	0.2
60°-70°	1.2	0.1
70°-80°	0.9	0.0
80°-90°	1.3	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°	1839.2	87.0
0°-40°	2069.5	97.9
0°-60°	2110.7	99.9
0°-90°	2114.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12902	
5°	8244	629
15°	2179	639
25°	1258	572
35°	302	230
45°	44	38
55°	3	3
65°	1	1
75°	0	1
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12902.5
0.5°	12862.6
1°	12696.1
1.5°	12428.5
2°	12022.9
2.5°	11543.3
3°	10942.7
3.5°	10283.8
4°	9632.0
4.5°	8901.9
5°	8244.4
5.5°	7528.5
6°	6947.9
6.5°	6343.1
7°	5867.7
7.5°	5365.3
8°	4961.2
8.5°	4555.5
9°	4250.9
9.5°	3915.1
10°	3681.7
12.5°	2715.4
15°	2178.9
17.5°	1861.5
20°	1615.3
22.5°	1418.9
25°	1258.1
27.5°	1097.3
30°	880.9
32.5°	566.4
35°	301.8
37.5°	166.5
40°	105.3
42.5°	69.7
45°	44.1
47.5°	27.1
50°	12.8
52.5°	4.3
55°	2.8
57.5°	1.4
60°	1.4
62.5°	1.4
65°	1.4



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	1.4
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°		1.4
70°		0.0

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(END OF REPORT)