

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: P583977

Luminaire Tested: **HCC8S20D010BZ-HM80520827-81WDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S20D010BZ-HM80520827-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

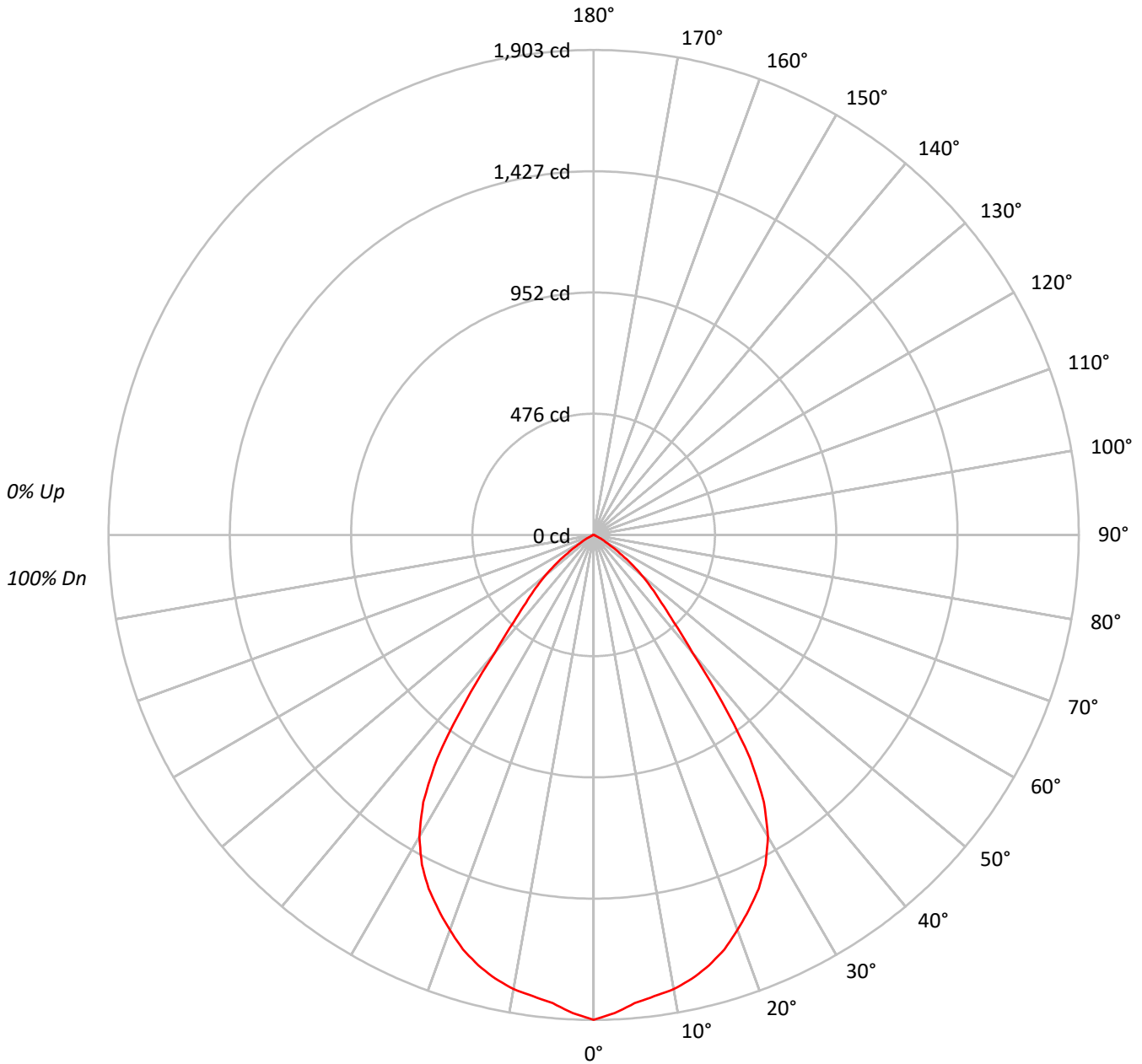
Lumens per Lamp: N/A  
Luminaire Lumens: 2445.6 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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									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	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	98	97	96	95	94	92	92	92	92	84																
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	90	93	90	88	90	88	86	84	84																
	2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	81	79	84	81	78	77	77	77	77	77																
	3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77	77	77	77	77	77	77	77	77	77	77	77																
	4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70	70	70	70	70	70	70	70	70	70	70	70																
	5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64	64	64	64	64	64	64	64	64																
	6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59	59	59	59	59	59	59	59	59	59	59	59																
	7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54	54	54	54	54	54	54	54	54	54	54	54																
	8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50	50	50	50	50	50	50	50	50	50	50	50																
	9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46	46	46	46	46	46	46	46	46																
	10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43	43	43	43	43	43	43	43	43																

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

	0°
0°	58678
5°	57098
10°	56668
15°	55819
20°	54132
25°	52111
30°	48678
35°	40283
40°	24321
45°	16380
50°	11806
55°	6731
60°	2960
65°	1058
70°	397
75°	167
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	7.2
10°-20°	491.4	20.1
20°-30°	701.0	28.7
30°-40°	638.3	26.1
40°-50°	301.1	12.3
50°-60°	118.4	4.8
60°-70°	18.9	0.8
70°-80°	1.3	0.1
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°	1367.6	55.9
0°-40°	2006.0	82.0
0°-60°	2425.5	99.2
0°-90°	2445.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1903	
5°	1845	175
15°	1748	491
25°	1532	701
35°	1070	638
45°	376	301
55°	125	118
65°	14	19
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1902.9
2.5°	1878.2
5°	1844.6
7.5°	1825.7
10°	1809.8
12.5°	1783.5
15°	1748.5
17.5°	1704.9
20°	1649.6
22.5°	1591.3
25°	1531.6
27.5°	1458.8
30°	1367.1
32.5°	1243.3
35°	1070.1
37.5°	826.9
40°	604.2
42.5°	464.4
45°	375.6
47.5°	308.6
50°	246.1
52.5°	184.9
55°	125.2
57.5°	78.6
60°	48.0
62.5°	29.1
65°	14.5
67.5°	7.3
70°	4.4
72.5°	1.4
75°	1.4
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)