

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: P584049

Luminaire Tested: **HCC8W20D010SL-HM80520930-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W20D010SL-HM80520930-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

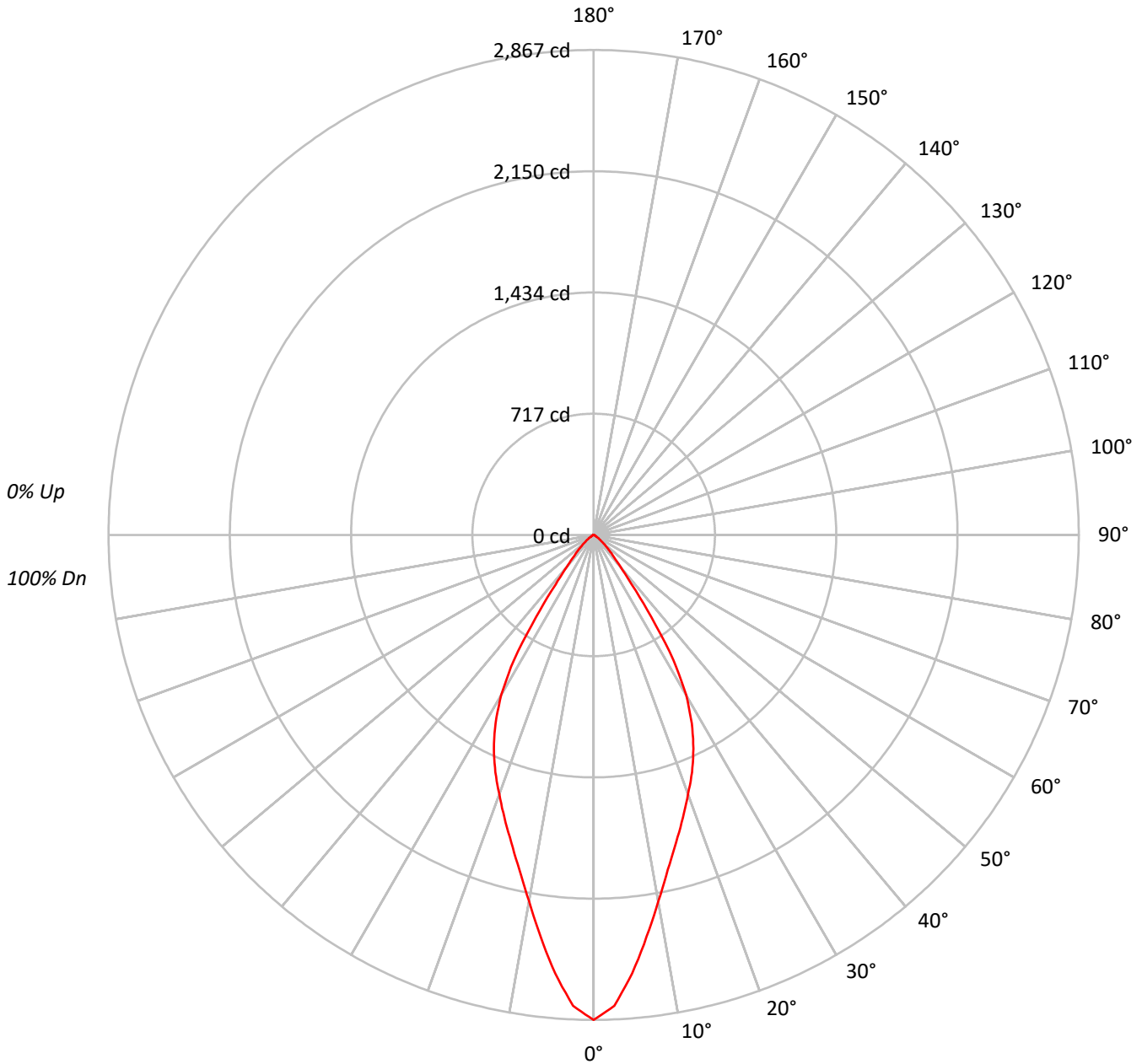
Lumens per Lamp: N/A  
Luminaire Lumens: 1933.4 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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			
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93		95	93	91		92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85		90	87	84		88	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79		85	81	78		83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73		80	76	73		78	75	72	71
6	88	79	73	69	87	78	73	69	77	72	68		76	71	68		74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64		71	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57		64	60	56		63	59	56	55
10	73	63	57	54	72	63	57	53	62	57	53		61	56	53		60	56	53	52

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

	0°
0°	88420
5°	80577
10°	68843
15°	60040
20°	53512
25°	47467
30°	38865
35°	22319
40°	9906
45°	5761
50°	3329
55°	1898
60°	1048
65°	671
70°	469
75°	310
80°	231
85°	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.6	12.2
10°-20°	528.6	27.3
20°-30°	632.8	32.7
30°-40°	382.8	19.8
40°-50°	107.3	5.5
50°-60°	33.3	1.7
60°-70°	9.5	0.5
70°-80°	2.6	0.1
80°-90°	0.9	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°	1397.0	72.3
0°-40°	1779.8	92.1
0°-60°	1920.4	99.3
0°-90°	1933.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2867	
5°	2603	236
15°	1881	529
25°	1395	633
35°	593	383
45°	132	107
55°	35	33
65°	9	10
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2867.4
2.5°	2786.3
5°	2603.1
7.5°	2396.3
10°	2198.6
12.5°	2025.9
15°	1880.7
17.5°	1752.4
20°	1630.7
22.5°	1518.2
25°	1395.1
27.5°	1256.3
30°	1091.5
32.5°	878.1
35°	592.9
37.5°	369.0
40°	246.1
42.5°	176.7
45°	132.1
47.5°	96.8
50°	69.4
52.5°	48.5
55°	35.3
57.5°	23.5
60°	17.0
62.5°	11.8
65°	9.2
67.5°	6.5
70°	5.2
72.5°	2.6
75°	2.6
77.5°	1.3
80°	1.3
82.5°	1.3
85°	1.3
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)