

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: P584069

Luminaire Tested: **HCC8S20D010MW-HM80520935-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S20D010MW-HM80520935-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

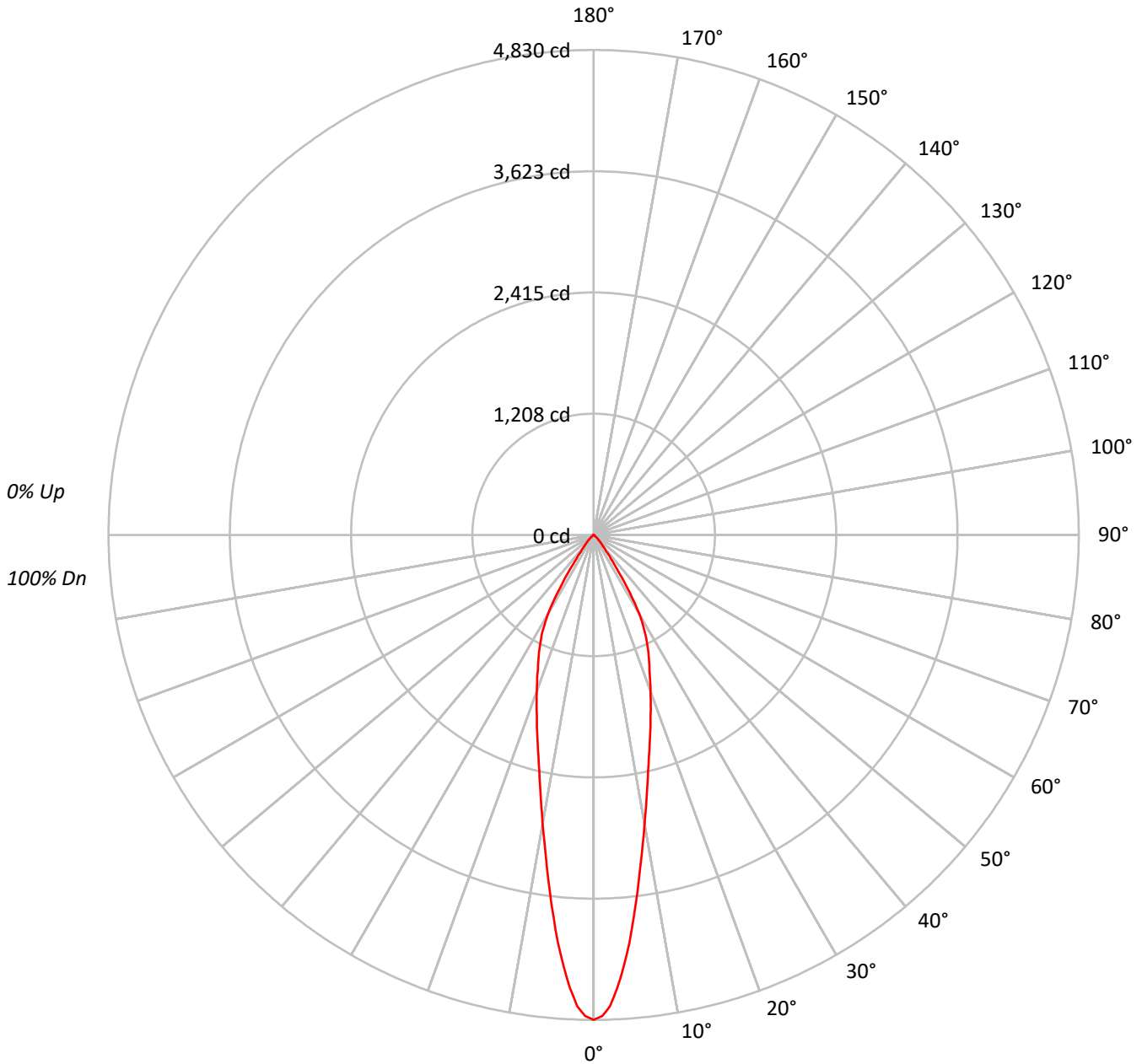
Lumens per Lamp: N/A  
Luminaire Lumens: 1871.8 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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									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	0																			
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100	100	100																			
	1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95	95	95	95	95	95																			
	2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89	89	89	89	89	89																			
	3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84	84	84	84	84	84																			
	4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80	80	80	80	80	80																			
	5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75	75	75	75	75	75																			
	6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72	72	72	72	72	72																			
	7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68	68	68	68	68	68																			
	8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65	65	65	65	65	65																			
	9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62	62	62	62	62	62																			
	10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59	59	59	59	59	59																			

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

	0°
0°	148939
5°	126181
10°	91550
15°	68752
20°	54247
25°	43755
30°	32423
35°	13134
40°	5539
45°	2970
50°	1334
55°	672
60°	432
65°	299
70°	252
75°	167
80°	249
85°	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.0	18.7
10°-20°	604.9	32.3
20°-30°	584.8	31.2
30°-40°	256.8	13.7
40°-50°	55.5	3.0
50°-60°	12.5	0.7
60°-70°	4.3	0.2
70°-80°	1.7	0.1
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°	1539.7	82.3
0°-40°	1796.5	96.0
0°-60°	1864.5	99.6
0°-90°	1871.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4830	
5°	4076	350
15°	2154	605
25°	1286	585
35°	349	257
45°	68	55
55°	12	12
65°	4	4
75°	1	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4830.0
1°	4793.8
2°	4695.1
3°	4517.1
4°	4304.5
5°	4076.4
6°	3827.6
7°	3577.3
8°	3342.3
9°	3124.0
10°	2923.8
11°	2734.8
12°	2565.2
13°	2410.8
14°	2274.5
15°	2153.6
17.5°	1882.5
20°	1653.1
22.5°	1451.5
25°	1286.0
27.5°	1117.8
30°	910.6
32.5°	618.7
35°	348.9
37.5°	205.8
40°	137.6
42.5°	97.3
45°	68.1
47.5°	44.4
50°	27.8
52.5°	16.7
55°	12.5
57.5°	9.7
60°	7.0
62.5°	5.6
65°	4.1
67.5°	2.8
70°	2.8
72.5°	1.4
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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85°		1.4
87.5°		1.4

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(END OF REPORT)