

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: P593553

Luminaire Tested: **HCC8S15D010MW-HM80520850-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593553  
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: HCC8S15D010MW-HM80520850-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

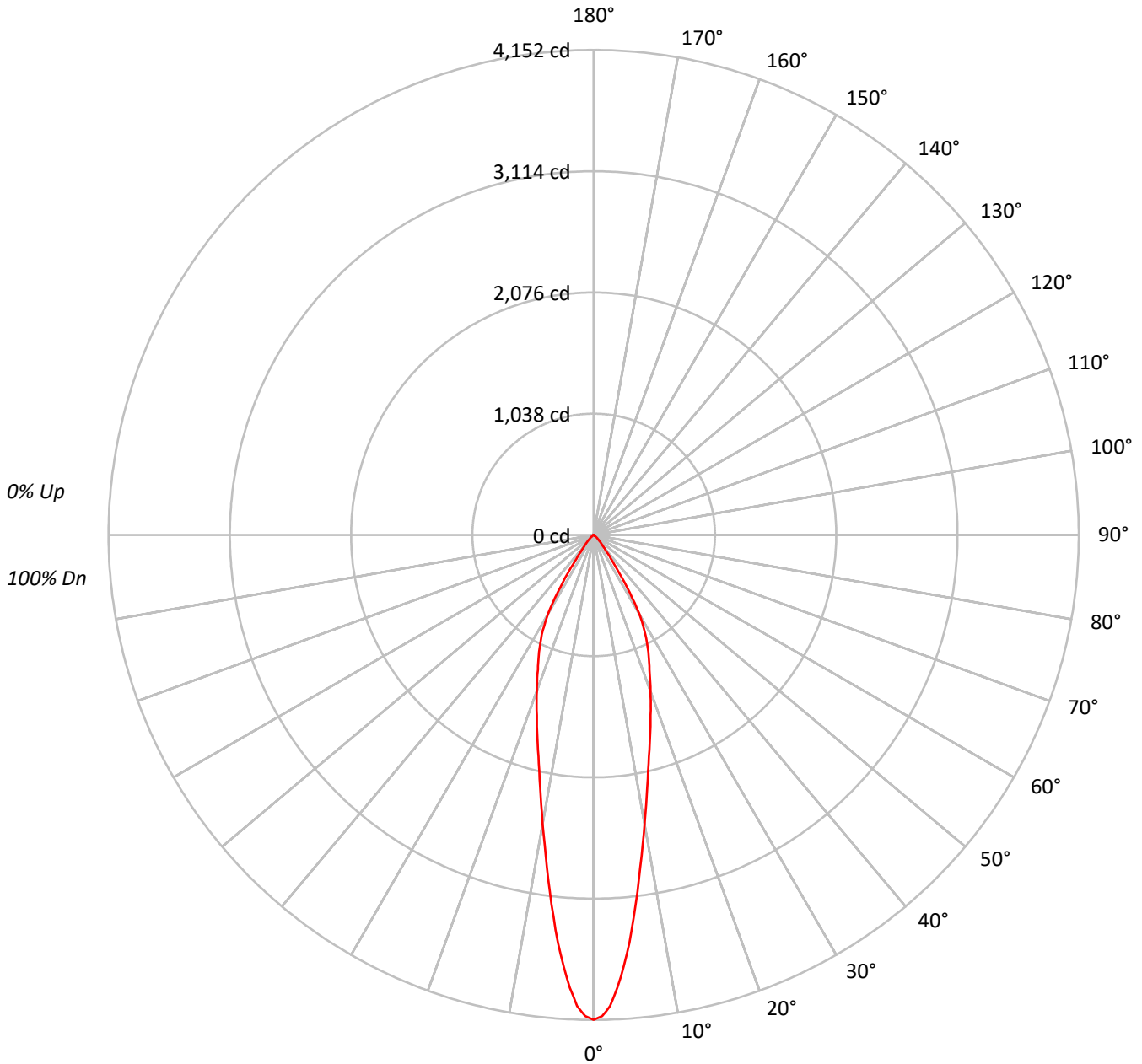
Lumens per Lamp: N/A  
Luminaire Lumens: 1609.1 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88		92	90	87		90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83		88	85	82		86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78		84	80	77		82	79	77	75
6	92	84	78	75	90	83	78	74	81	77	74		80	76	73		79	76	73	72
7	88	80	74	70	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	66		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	63	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

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

	0°
0°	128029
5°	108472
10°	78700
15°	59104
20°	46634
25°	37614
30°	27876
35°	11293
40°	4762
45°	2555
50°	1147
55°	575
60°	370
65°	263
70°	216
75°	143
80°	213
85°	425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.9	18.7
10°-20°	520.0	32.3
20°-30°	502.7	31.2
30°-40°	220.8	13.7
40°-50°	47.7	3.0
50°-60°	10.7	0.7
60°-70°	3.7	0.2
70°-80°	1.4	0.1
80°-90°	1.1	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°	1323.6	82.3
0°-40°	1544.4	96.0
0°-60°	1602.8	99.6
0°-90°	1609.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4152	
5°	3504	301
15°	1851	520
25°	1106	503
35°	300	221
45°	59	48
55°	11	11
65°	4	4
75°	1	1
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4151.9
1°	4120.9
2°	4036.0
3°	3883.1
4°	3700.2
5°	3504.3
6°	3290.3
7°	3075.2
8°	2873.2
9°	2685.6
10°	2513.4
11°	2350.8
12°	2205.0
13°	2072.4
14°	1955.2
15°	1851.4
17.5°	1618.2
20°	1421.1
22.5°	1247.8
25°	1105.5
27.5°	960.9
30°	782.9
32.5°	531.9
35°	300.0
37.5°	176.9
40°	118.3
42.5°	83.6
45°	58.6
47.5°	38.2
50°	23.9
52.5°	14.3
55°	10.7
57.5°	8.3
60°	6.0
62.5°	4.8
65°	3.6
67.5°	2.4
70°	2.4
72.5°	1.2
75°	1.2
77.5°	1.2
80°	1.2
82.5°	1.2

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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°		1.2
87.5°		1.2

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(END OF REPORT)