

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: P584068

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584068  
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: HCC8S20D010MW-HM80520935-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

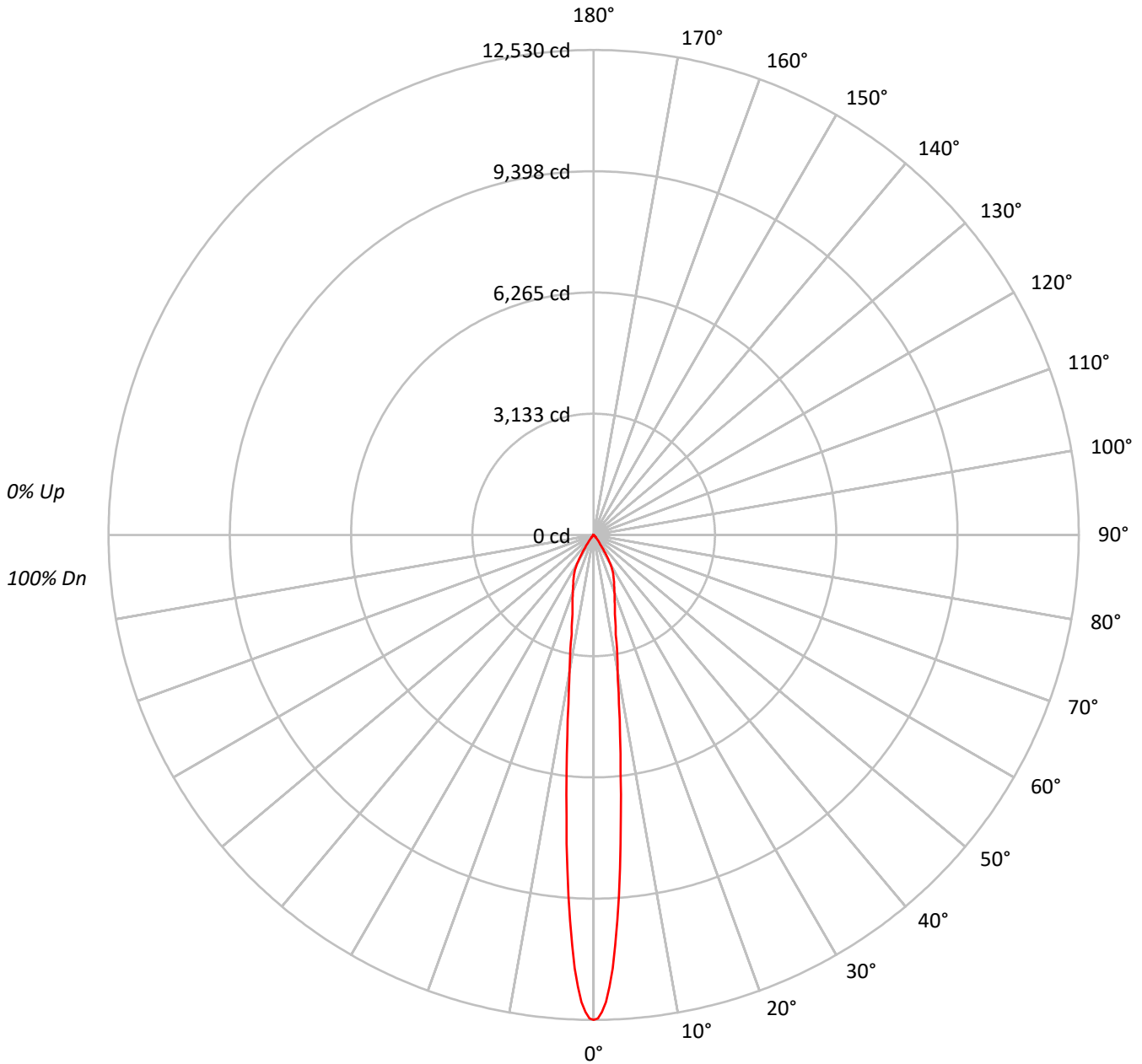
Lumens per Lamp: N/A  
Luminaire Lumens: 2052.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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									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																																				
1	115	112	110	108	112	110	108	106	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°	386394
5°	247840
10°	111959
15°	67551
20°	51481
25°	41571
30°	30462
35°	11030
40°	4114
45°	1866
50°	595
55°	145
60°	86
65°	102
70°	0
75°	0
80°	249
85°	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.7	29.7
10°-20°	620.3	30.2
20°-30°	555.2	27.0
30°-40°	223.6	10.9
40°-50°	36.6	1.8
50°-60°	3.3	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°	1786.2	87.0
0°-40°	2009.8	97.9
0°-60°	2049.8	99.8
0°-90°	2053.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2052.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12530	
5°	8007	611
15°	2116	620
25°	1222	555
35°	293	224
45°	43	37
55°	3	3
65°	1	1
75°	0	1
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	12530.5
0.5°	12491.8
1°	12330.2
1.5°	12070.2
2°	11676.4
2.5°	11210.6
3°	10627.4
3.5°	9987.4
4°	9354.3
4.5°	8645.3
5°	8006.7
5.5°	7311.5
6°	6747.7
6.5°	6160.2
7°	5698.5
7.5°	5210.7
8°	4818.2
8.5°	4424.2
9°	4128.5
9.5°	3802.3
10°	3575.6
12.5°	2637.2
15°	2116.0
17.5°	1807.9
20°	1568.8
22.5°	1378.0
25°	1221.8
27.5°	1065.7
30°	855.5
32.5°	550.1
35°	293.0
37.5°	161.7
40°	102.2
42.5°	67.7
45°	42.8
47.5°	26.2
50°	12.4
52.5°	4.1
55°	2.7
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)