

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: P592666

Luminaire Tested: **HCC4W20D010MB-HM40525850-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W20D010MB-HM40525850-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

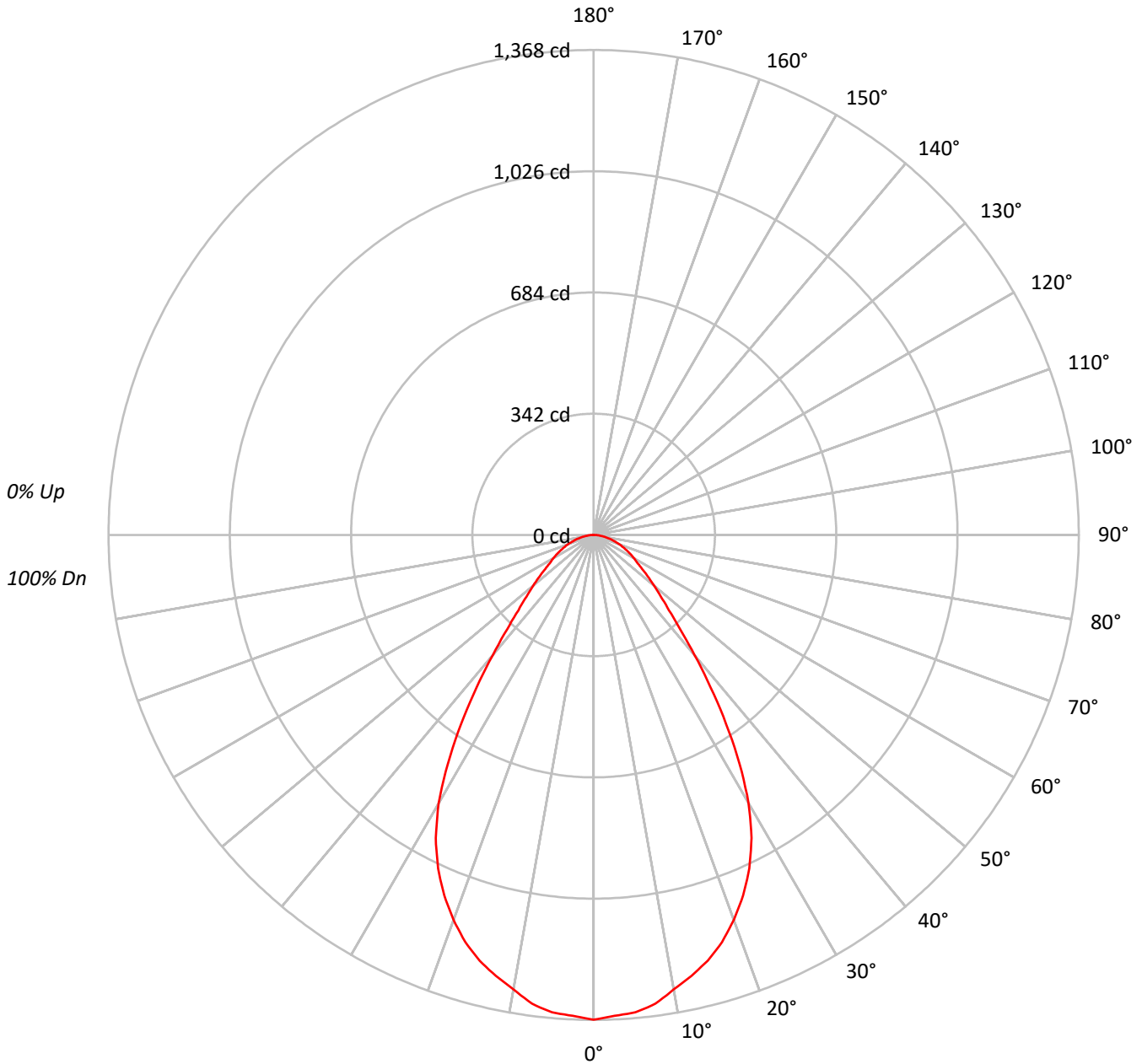
Lumens per Lamp: N/A  
Luminaire Lumens: 1920.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38

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

	0°
0°	168675
5°	167413
10°	163048
15°	158753
20°	151660
25°	141282
30°	124424
35°	98116
40°	71218
45°	52349
50°	42562
55°	35719
60°	32366
65°	29741
70°	27661
75°	25258
80°	22801
85°	19813



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.5	6.6
10°-20°	348.7	18.2
20°-30°	472.7	24.6
30°-40°	405.6	21.1
40°-50°	239.5	12.5
50°-60°	151.8	7.9
60°-70°	102.0	5.3
70°-80°	56.3	2.9
80°-90°	15.8	0.8
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°	948.9	49.4
0°-40°	1354.6	70.6
0°-60°	1745.9	90.9
0°-90°	1920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1368	
5°	1352	127
15°	1243	349
25°	1038	473
35°	652	406
45°	300	240
55°	166	152
65°	102	102
75°	53	56
85°	14	16
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1367.5
2.5°	1357.7
5°	1352.1
7.5°	1334.0
10°	1301.8
12.5°	1274.0
15°	1243.2
17.5°	1204.2
20°	1155.4
22.5°	1101.0
25°	1038.1
27.5°	964.2
30°	873.6
32.5°	766.1
35°	651.6
37.5°	541.4
40°	442.3
42.5°	360.0
45°	300.1
47.5°	256.7
50°	221.8
52.5°	192.6
55°	166.1
57.5°	145.1
60°	131.2
62.5°	117.2
65°	101.9
67.5°	89.4
70°	76.7
72.5°	64.2
75°	53.0
77.5°	41.9
80°	32.1
82.5°	22.4
85°	14.0
87.5°	5.6
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)