

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: P579856

Luminaire Tested: **HCC4W15D010MB-HM40525830-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579856
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: HCC4W15D010MB-HM40525830-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

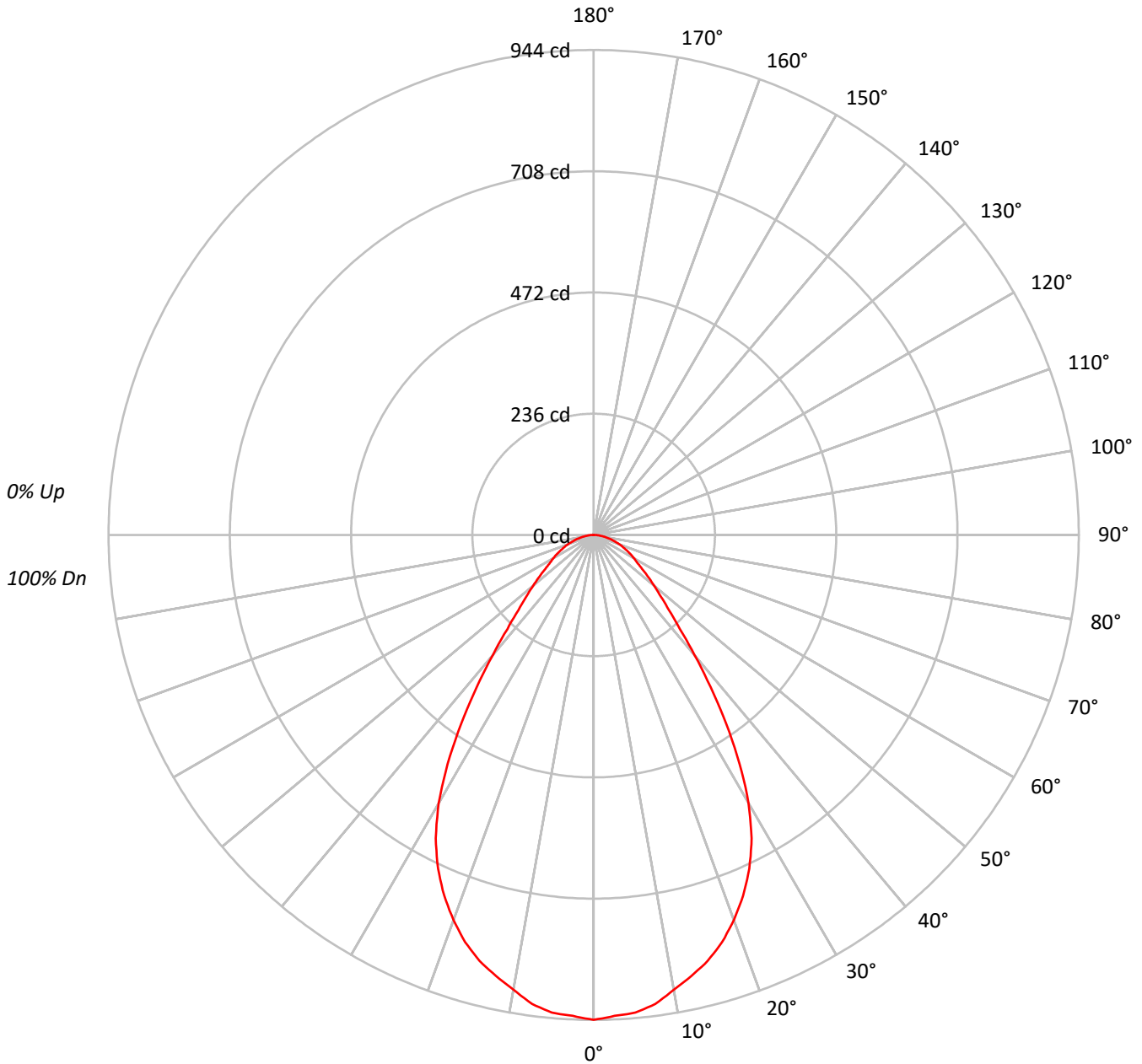
Lumens per Lamp: N/A
Luminaire Lumens: 1325.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): 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	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°	116426
5°	115571
10°	112561
15°	109589
20°	104681
25°	97541
30°	85884
35°	67730
40°	49158
45°	36108
50°	29398
55°	24644
60°	22326
65°	20518
70°	19114
75°	17442
80°	15769
85°	13728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	6.6
10°-20°	240.7	18.2
20°-30°	326.3	24.6
30°-40°	280.0	21.1
40°-50°	165.3	12.5
50°-60°	104.8	7.9
60°-70°	70.4	5.3
70°-80°	38.9	2.9
80°-90°	10.9	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°	655.1	49.4
0°-40°	935.0	70.6
0°-60°	1205.1	90.9
0°-90°	1325.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1325.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	944	
5°	933	88
15°	858	241
25°	717	326
35°	450	280
45°	207	165
55°	115	105
65°	70	70
75°	37	39
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	943.9
2.5°	937.2
5°	933.4
7.5°	920.9
10°	898.7
12.5°	879.4
15°	858.2
17.5°	831.3
20°	797.5
22.5°	760.0
25°	716.7
27.5°	665.6
30°	603.0
32.5°	528.8
35°	449.8
37.5°	373.7
40°	305.3
42.5°	248.5
45°	207.0
47.5°	177.3
50°	153.2
52.5°	132.9
55°	114.6
57.5°	100.2
60°	90.5
62.5°	81.0
65°	70.3
67.5°	61.6
70°	53.0
72.5°	44.3
75°	36.6
77.5°	28.9
80°	22.2
82.5°	15.5
85°	9.7
87.5°	3.9
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)