

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: P581507

Luminaire Tested: **HCC4W07D010MB-HM40525930-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581507
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: HCC4W07D010MB-HM40525930-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691.5 lumens
Efficiency: N/A
Efficacy: 86.4 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

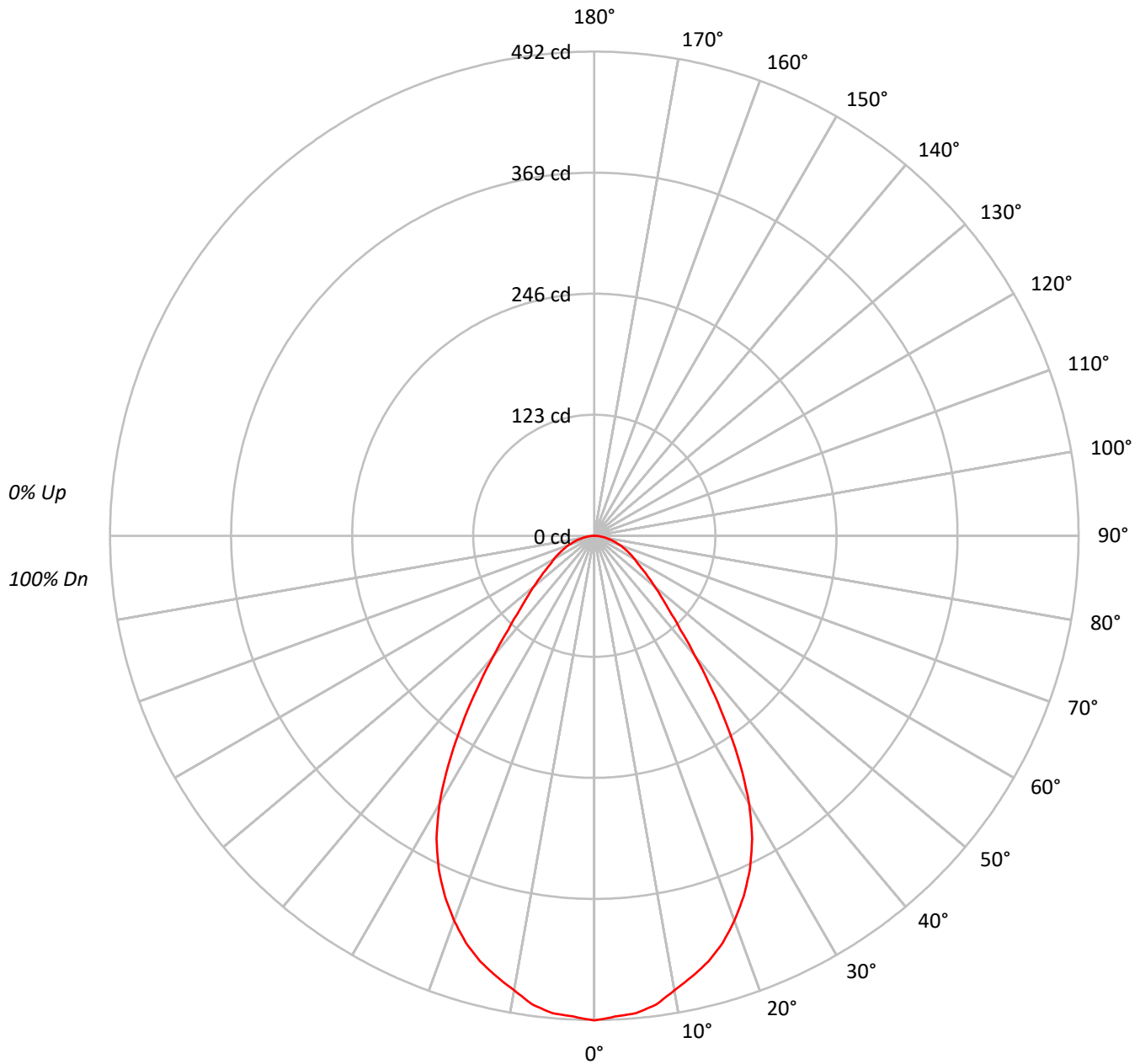
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	97		98	96	94		94	92	91
2	104	97	92	88		101	96	91	87		92	88	85		89	86	83		86	83	81
3	97	88	82	77		95	87	81	76		84	79	75		82	77	74		79	76	73
4	90	81	74	68		88	80	73	68		77	72	67		75	70	66		73	69	65
5	85	74	67	61		83	73	66	61		71	65	60		69	64	60		68	63	59
6	79	68	61	56		78	67	60	55		66	60	55		64	59	55		63	58	54
7	75	63	56	51		73	62	56	51		61	55	50		60	54	50		59	53	50
8	70	59	52	47		69	58	51	46		57	51	46		56	50	46		55	50	46
9	66	55	48	43		65	54	47	43		53	47	43		52	47	43		51	46	42
10	63	51	44	40		62	51	44	40		50	44	40		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60748
5°	60299
10°	58729
15°	57183
20°	54631
25°	50887
30°	44822
35°	35340
40°	25650
45°	18857
50°	15332
55°	12881
60°	11644
65°	10682
70°	9990
75°	9103
80°	8240
85°	7076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	6.6
10°-20°	125.6	18.2
20°-30°	170.3	24.6
30°-40°	146.1	21.1
40°-50°	86.3	12.5
50°-60°	54.7	7.9
60°-70°	36.7	5.3
70°-80°	20.3	2.9
80°-90°	5.7	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°	341.8	49.4
0°-40°	487.9	70.6
0°-60°	628.8	90.9
0°-90°	691.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	492	
5°	487	46
15°	448	126
25°	374	170
35°	235	146
45°	108	86
55°	60	55
65°	37	37
75°	19	20
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	492.5
2.5°	489.0
5°	487.0
7.5°	480.5
10°	468.9
12.5°	458.8
15°	447.8
17.5°	433.7
20°	416.2
22.5°	396.5
25°	373.9
27.5°	347.3
30°	314.7
32.5°	276.0
35°	234.7
37.5°	195.1
40°	159.3
42.5°	129.6
45°	108.1
47.5°	92.5
50°	79.9
52.5°	69.3
55°	59.9
57.5°	52.2
60°	47.2
62.5°	42.2
65°	36.6
67.5°	32.2
70°	27.7
72.5°	23.1
75°	19.1
77.5°	15.0
80°	11.6
82.5°	8.1
85°	5.0
87.5°	2.0
90°	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report



— 0°-180°

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(END OF REPORT)