

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: P581508

Luminaire Tested: **HCC4W07D010MW-HM40525930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W07D010MW-HM40525930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 710.6 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

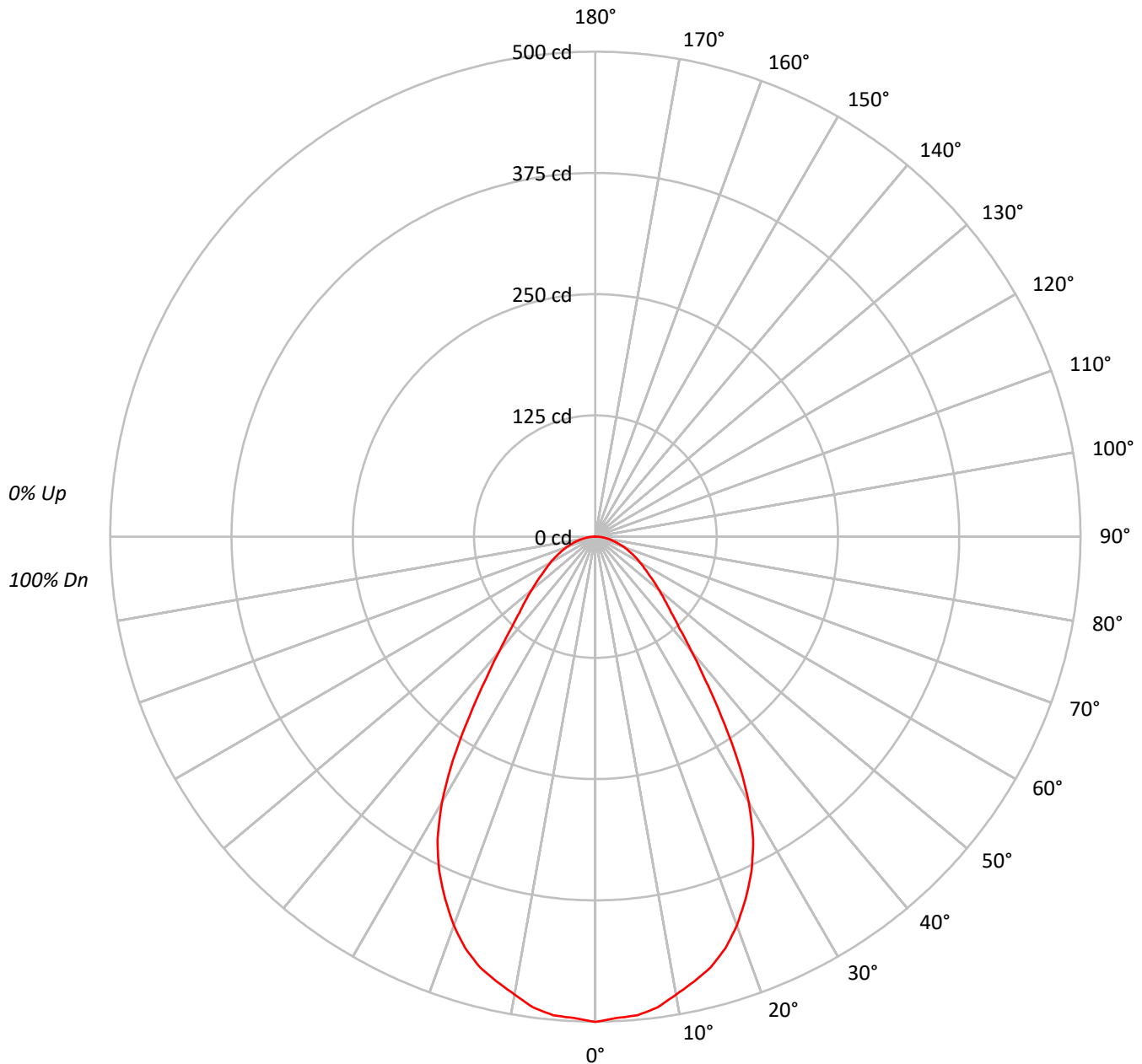
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101		109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	80
3	96	88	81	76		94	86	80	75		84	78	74		81	77	73		79	75	72
4	90	80	73	68		88	79	72	67		77	71	66		74	69	65		72	68	65
5	84	74	66	61		82	72	66	60		71	64	60		69	63	59		67	62	59
6	79	68	60	55		77	67	60	55		65	59	54		64	58	54		62	57	53
7	74	63	55	50		73	62	55	50		61	54	50		59	54	49		58	53	49
8	70	58	51	46		68	58	51	46		56	50	46		55	50	45		54	49	45
9	66	54	47	42		65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61722
5°	61339
10°	60032
15°	58715
20°	55983
25°	51826
30°	45078
35°	34046
40°	24684
45°	19275
50°	16483
55°	14258
60°	13149
65°	12025
70°	11252
75°	10294
80°	9589
85°	9199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	6.6
10°-20°	128.8	18.1
20°-30°	173.1	24.4
30°-40°	142.4	20.0
40°-50°	87.4	12.3
50°-60°	60.5	8.5
60°-70°	41.3	5.8
70°-80°	23.0	3.2
80°-90°	7.3	1.0
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°	348.7	49.1
0°-40°	491.1	69.1
0°-60°	639.0	89.9
0°-90°	710.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	500	
5°	495	47
15°	460	129
25°	381	173
35°	226	142
45°	110	87
55°	66	61
65°	41	41
75°	22	23
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	500.4
2.5°	496.9
5°	495.4
7.5°	489.8
10°	479.3
12.5°	469.8
15°	459.8
17.5°	445.2
20°	426.5
22.5°	404.4
25°	380.8
27.5°	352.2
30°	316.5
32.5°	272.8
35°	226.1
37.5°	185.8
40°	153.3
42.5°	128.1
45°	110.5
47.5°	97.0
50°	85.9
52.5°	75.9
55°	66.3
57.5°	59.3
60°	53.3
62.5°	47.2
65°	41.2
67.5°	36.2
70°	31.2
72.5°	26.2
75°	21.6
77.5°	17.1
80°	13.5
82.5°	10.0
85°	6.5
87.5°	3.5
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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— 0°-180°

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(END OF REPORT)