

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: P592646

Luminaire Tested: **HCC4W15D010BZ-HM40525950-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W15D010BZ-HM40525950-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

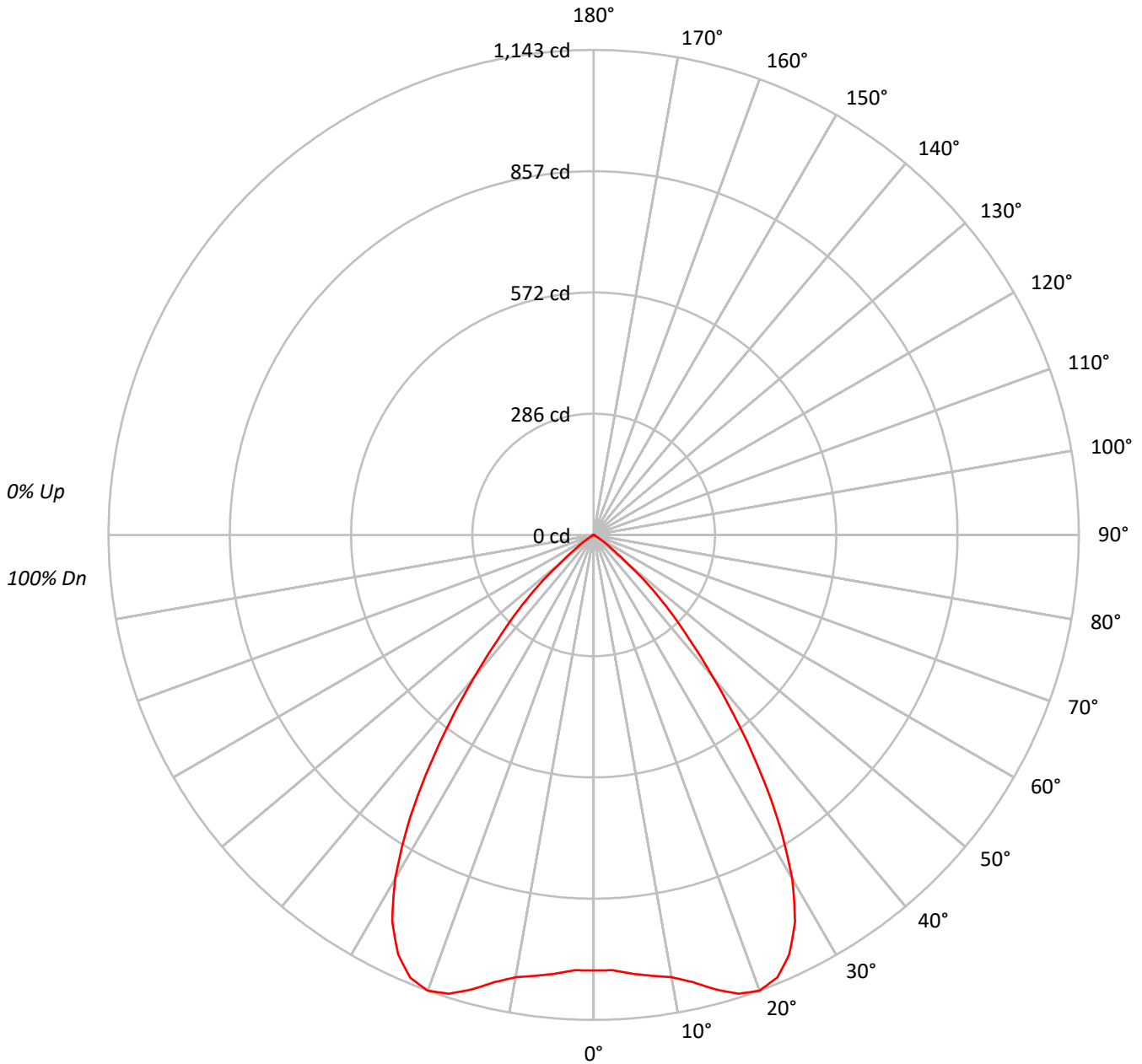
Lumens per Lamp: N/A
Luminaire Lumens: 1567.7 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126639
5°	128509
10°	132538
15°	141616
20°	150045
25°	148414
30°	133212
35°	103672
40°	70235
45°	43853
50°	18978
55°	6365
60°	1603
65°	1109
70°	649
75°	429
80°	639
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	6.4
10°-20°	314.8	20.1
20°-30°	493.3	31.5
30°-40°	425.7	27.2
40°-50°	195.8	12.5
50°-60°	33.3	2.1
60°-70°	3.8	0.2
70°-80°	1.3	0.1
80°-90°	0.1	0.0
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°	907.8	57.9
0°-40°	1333.5	85.1
0°-60°	1562.5	99.7
0°-90°	1567.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1027	
5°	1038	100
15°	1109	315
25°	1090	493
35°	688	426
45°	251	196
55°	30	33
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1026.7
2.5°	1026.7
5°	1037.9
7.5°	1048.0
10°	1058.2
12.5°	1079.5
15°	1109.0
17.5°	1133.9
20°	1143.1
22.5°	1129.4
25°	1090.5
27.5°	1027.6
30°	935.3
32.5°	818.8
35°	688.5
37.5°	557.2
40°	436.2
42.5°	333.6
45°	251.4
47.5°	176.5
50°	98.9
52.5°	54.6
55°	29.6
57.5°	14.8
60°	6.5
62.5°	4.7
65°	3.8
67.5°	2.7
70°	1.8
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
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)