

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: P592603

Luminaire Tested: **HCC4S10D010SL-HM40525950-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S10D010SL-HM40525950-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

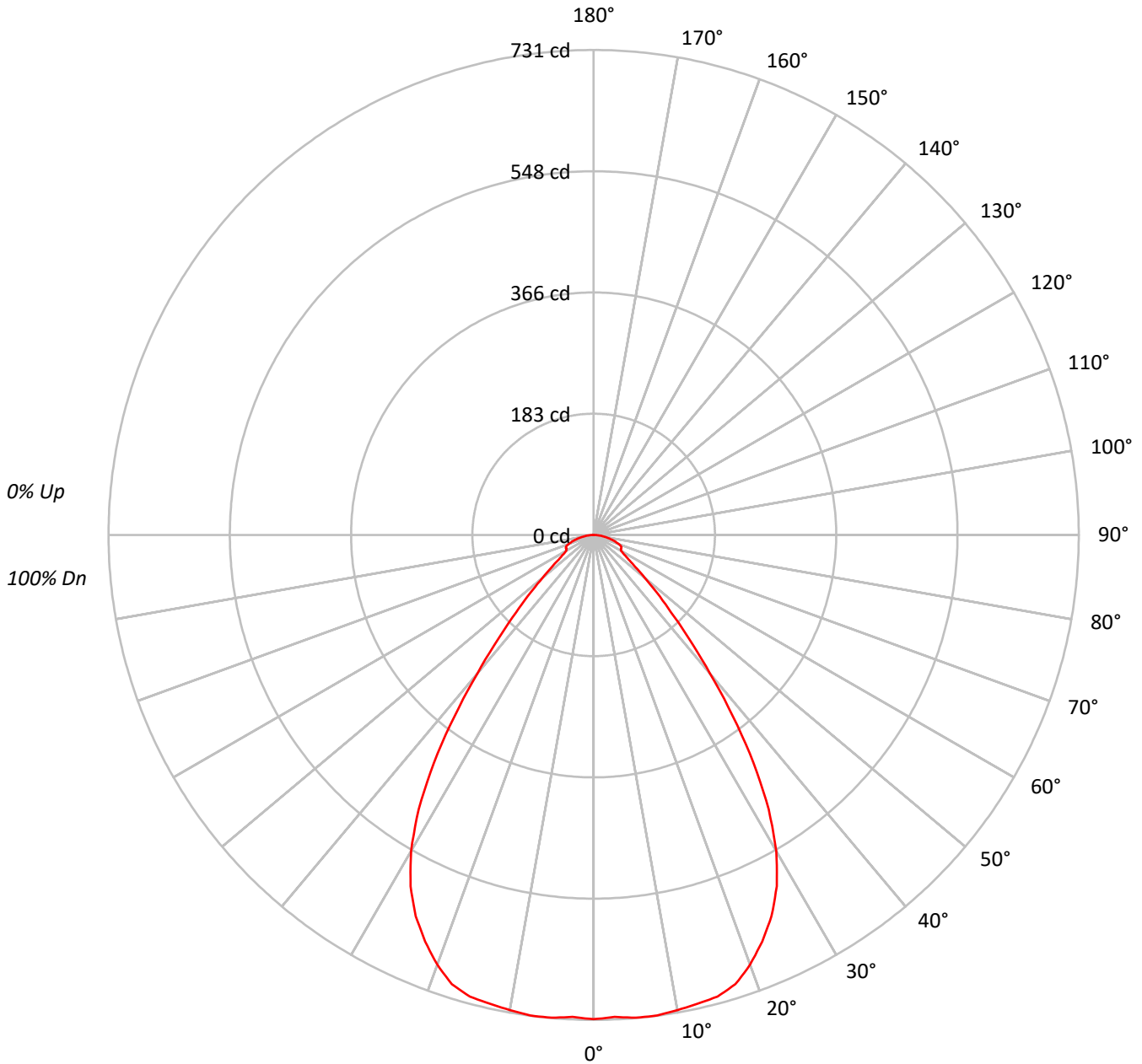
Lumens per Lamp: N/A
Luminaire Lumens: 1096.7 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59				
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90030
5°	90461
10°	91081
15°	91993
20°	90466
25°	86299
30°	78406
35°	63242
40°	43893
45°	28800
50°	19304
55°	13720
60°	11743
65°	13484
70°	14462
75°	13916
80°	12502
85°	11605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	6.3
10°-20°	202.4	18.5
20°-30°	289.1	26.4
30°-40°	258.3	23.6
40°-50°	132.5	12.1
50°-60°	60.2	5.5
60°-70°	44.9	4.1
70°-80°	30.6	2.8
80°-90°	9.1	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°	561.1	51.2
0°-40°	819.4	74.7
0°-60°	1012.2	92.3
0°-90°	1096.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	730	
5°	731	70
15°	720	202
25°	634	289
35°	420	258
45°	165	132
55°	64	60
65°	46	45
75°	29	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	729.9
2.5°	727.2
5°	730.6
7.5°	730.6
10°	727.2
12.5°	723.8
15°	720.4
17.5°	710.2
20°	689.2
22.5°	663.3
25°	634.1
27.5°	597.3
30°	550.5
32.5°	490.7
35°	420.0
37.5°	344.6
40°	272.6
42.5°	212.7
45°	165.1
47.5°	129.2
50°	100.6
52.5°	78.9
55°	63.8
57.5°	53.7
60°	47.6
62.5°	46.2
65°	46.2
67.5°	44.8
70°	40.1
72.5°	34.7
75°	29.2
77.5°	23.1
80°	17.6
82.5°	12.9
85°	8.2
87.5°	3.4
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)