

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: G2-1802-569-4

Luminaire Tested: **230-8LED4010-12-BK**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-4
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-4)
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/06/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED4010-12-BK
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD BLACK
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED
SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

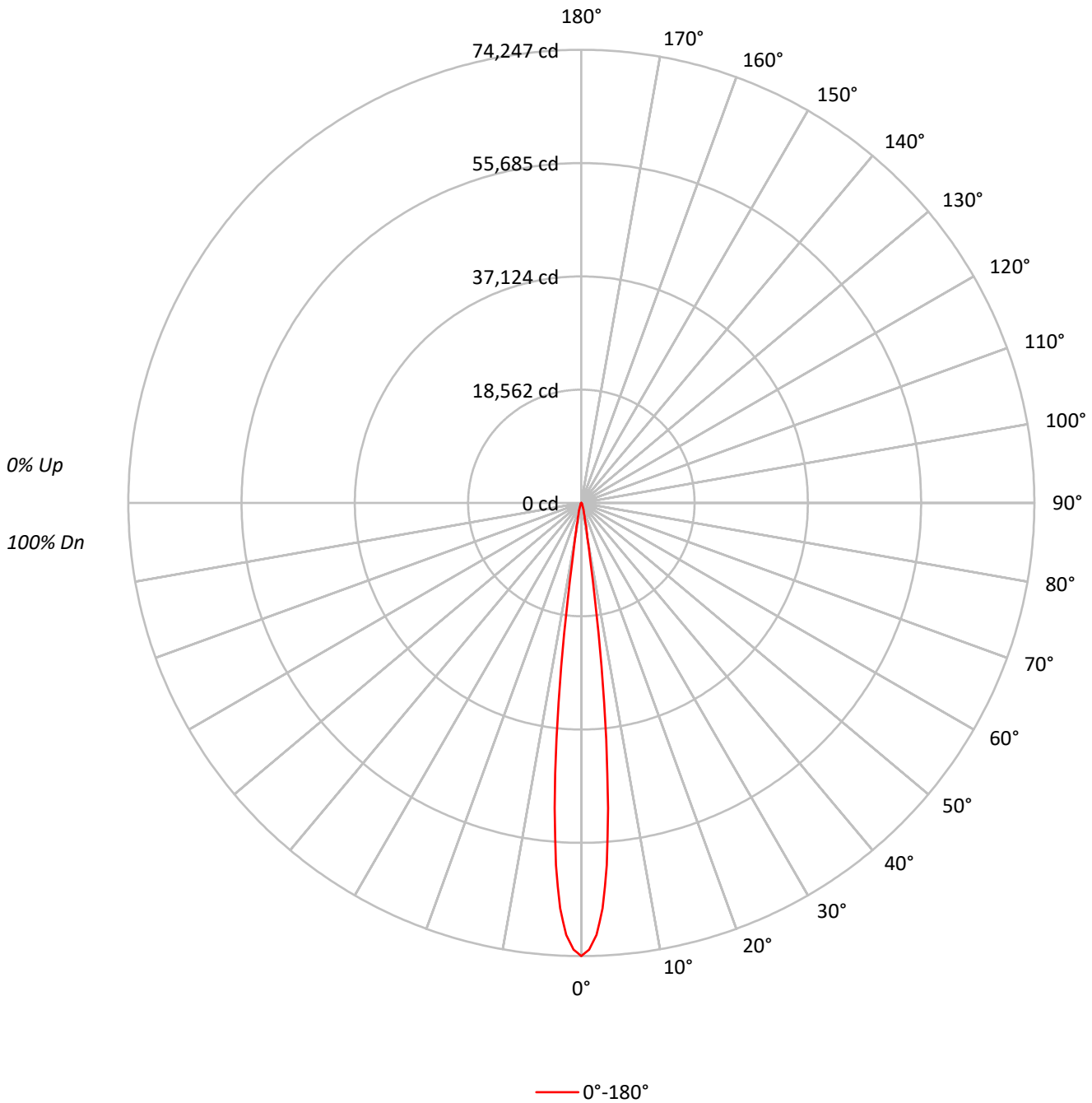
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 500.0 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.19
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): 12.0
Input Current (Ain): 0.709
Voltage Rise (V): NR
Power Factor: 0.9469
Total Harmonic Distortion (THDi): 27.5
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.9
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	116	114	113	111	114	112	111	109	108	107	106	105	104	103	101	101	100	98
2	113	110	108	106	111	109	106	105	106	104	102	103	101	100	100	99	98	97
3	111	107	104	102	109	106	103	101	103	101	99	101	99	98	99	98	97	95
4	108	104	101	99	107	103	100	98	101	99	97	100	98	96	98	96	95	94
5	106	102	99	96	105	101	98	96	100	97	95	98	96	95	97	95	94	93
6	105	100	97	95	104	99	96	94	98	96	94	97	95	93	96	94	93	92
7	103	98	95	93	102	98	95	93	97	94	92	96	94	92	95	93	92	91
8	101	97	94	92	101	96	94	92	95	93	91	95	93	91	94	92	91	90
9	100	95	93	91	99	95	92	90	94	92	90	94	92	90	93	91	90	89
10	99	94	91	90	98	94	91	90	93	91	89	93	91	89	92	90	89	88

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36632099
5°	24873059
10°	2859755
15°	848719
20°	379922
25°	196958
30°	137413
35°	112992
40°	94935
45°	65448
50°	51427
55°	34579
60°	13223
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3030.5	75.8
10°-20°	559.0	14.0
20°-30°	180.3	4.5
30°-40°	115.7	2.9
40°-50°	77.0	1.9
50°-60°	32.7	0.8
60°-70°	4.9	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3769.8	94.2
0°-40°	3885.5	97.1
0°-60°	3995.1	99.9
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	74247	
5°	50222	###
15°	1662	559
25°	362	180
35°	188	116
45°	94	77
55°	40	33
65°	0	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	74247.3
1°	73188.8
2°	70830.4
3°	66515.7
4°	59467.5
5°	50221.8
6°	38925.9
7°	26946.6
8°	16320.7
9°	9339.5
10°	5708.2
12.5°	2706.7
15°	1661.6
17.5°	1165.8
20°	723.6
22.5°	469.0
25°	361.8
27.5°	294.8
30°	241.2
32.5°	201.0
35°	187.6
37.5°	160.8
40°	147.4
42.5°	120.6
45°	93.8
47.5°	80.4
50°	67.0
52.5°	40.2
55°	40.2
57.5°	26.8
60°	13.4
62.5°	13.4
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)