

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: G2-1802-569-17

Luminaire Tested: **203-FL-8LED4025-12-BK-LSL**

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-17
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/04/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED4025-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, FLUSH HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI 25° NFL
SM16-07-25D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 375.1 lumens
Efficiency: N/A
Efficacy: 48.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 1.01 / 0.56
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

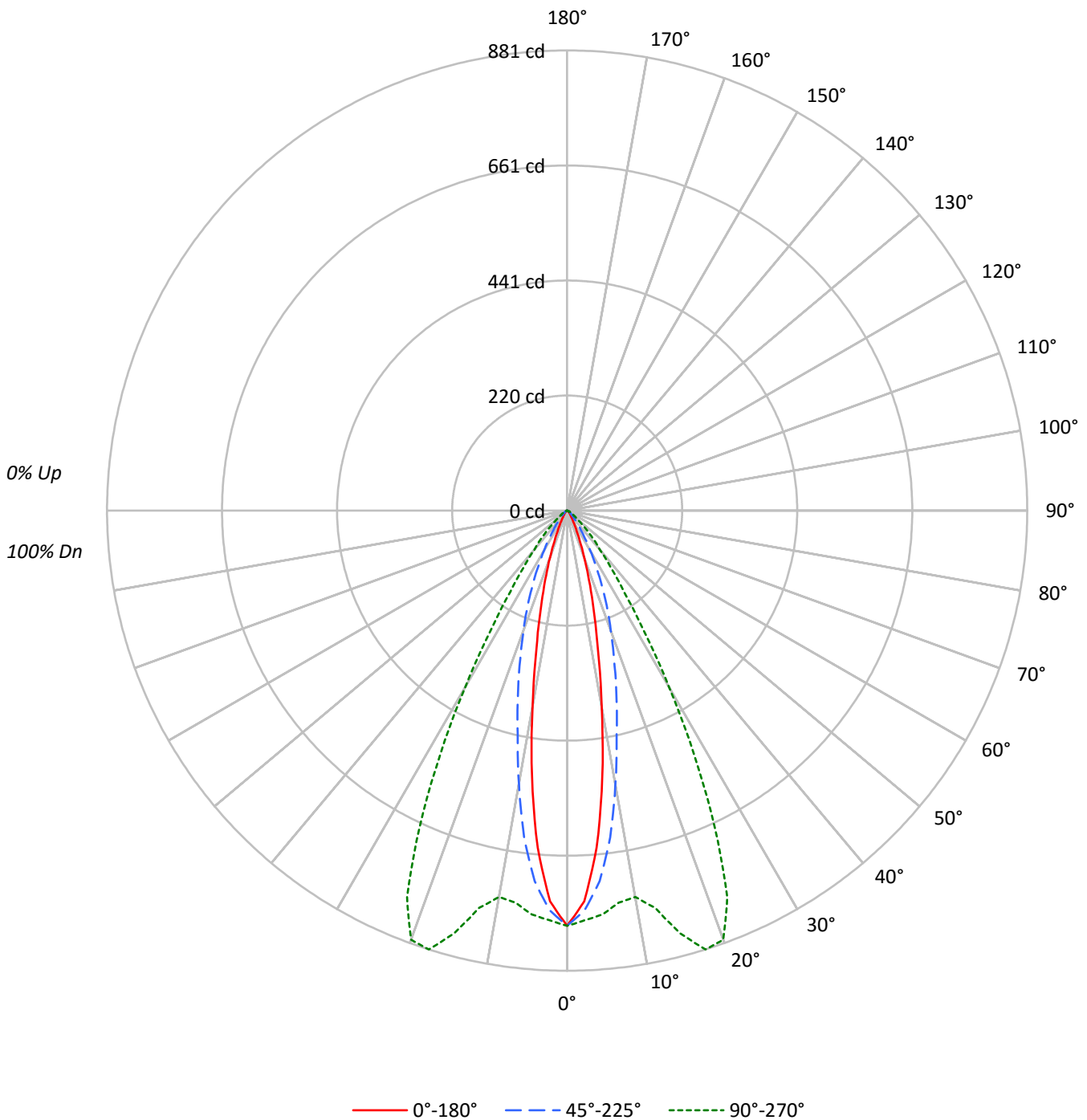
Input Watts (W): 7.8
Input Voltage (V): 12.0
Input Current (Ain): 0.686
Voltage Rise (V): NR
Power Factor: 0.9485
Total Harmonic Distortion (THDi): 27.2%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



TEST NUMBER: G2-1802-569-17

CATALOG NUMBER: 203-FL-8LED4025-12-BK-LSL

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-17

CATALOG NUMBER: 203-FL-8LED4025-12-BK-LSL

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100		
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94	94		
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88	88		
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83	83	83	83	83	83	83		
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78	78	78	78	78	78	78		
5	94	87	81	77	93	86	81	77	84	80	76	82	78	75	81	77	75	73	73	73	73	73	73	73		
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	74	71	69	69	69	69	69	69	69		
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66	66	66	66	66	66	66		
8	83	74	68	65	82	73	68	64	72	68	64	71	67	64	70	67	64	62	62	62	62	62	62	62		
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	61	59	59	59	59	59	59	59		
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57	57	57	57	57	57	57		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	392237	392237	392237
5°	320931	352628	384325
10°	190376	266527	376244
15°	99092	185925	428037
20°	50404	128111	458888
25°	23409	84380	364193
30°	11964	50704	222185
35°	7228	28308	113836
40°	5797	16746	62474
45°	4186	9768	36980
50°	3838	6908	19957
55°	3441	5161	12043
60°	2960	3947	7894
65°	3502	3502	5837
70°	2885	2885	4328
75°	1906	1906	1906
80°	2841	0	0
85°	0	0	0



TEST NUMBER: G2-1802-569-17

CATALOG NUMBER: 203-FL-8LED4025-12-BK-LSL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	16.7
10°-20°	122.9	32.8
20°-30°	110.8	29.5
30°-40°	49.2	13.1
40°-50°	17.9	4.8
50°-60°	7.1	1.9
60°-70°	3.4	0.9
70°-80°	1.3	0.3
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°	296.3	79.0
0°-40°	345.5	92.1
0°-60°	370.5	98.8
0°-90°	375.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	375.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	648	665	712	758	776	53
15°	194	234	364	637	838	56
25°	43	61	155	404	669	22
35°	12	17	47	132	189	8
45°	6	8	14	34	53	5
55°	4	5	6	10	14	4
65°	3	3	3	4	5	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: G2-1802-569-17

CATALOG NUMBER: 203-FL-8LED4025-12-BK-LSL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795	795	795	795	795
2.5°	749	756	766	779	785
5°	648	665	712	758	776
7.5°	515	548	631	716	757
10°	380	419	532	671	751
12.5°	271	311	437	648	779
15°	194	234	364	637	838
17.5°	139	175	298	617	881
20°	96	127	244	572	874
22.5°	64	87	198	496	801
25°	43	61	155	404	669
27.5°	29	42	119	314	526
30°	21	30	89	234	390
32.5°	15	21	65	179	273
35°	12	17	47	132	189
37.5°	11	14	35	95	138
40°	9	12	26	69	97
42.5°	7	10	19	49	76
45°	6	8	14	34	53
47.5°	6	7	11	26	37
50°	5	6	9	19	26
52.5°	5	5	8	14	19
55°	4	5	6	10	14
57.5°	4	4	5	8	12
60°	3	4	4	6	8
62.5°	3	3	4	5	6
65°	3	3	3	4	5
67.5°	2	2	2	3	4
70°	2	2	2	2	3
72.5°	2	1	1	2	2
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	0	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)