

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: G2-1802-569-40

Luminaire Tested: **230-8LED4025-12-CS-DIFF**

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-40
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-40)
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/05/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED4025-12-CS-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, DIFFUSED LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

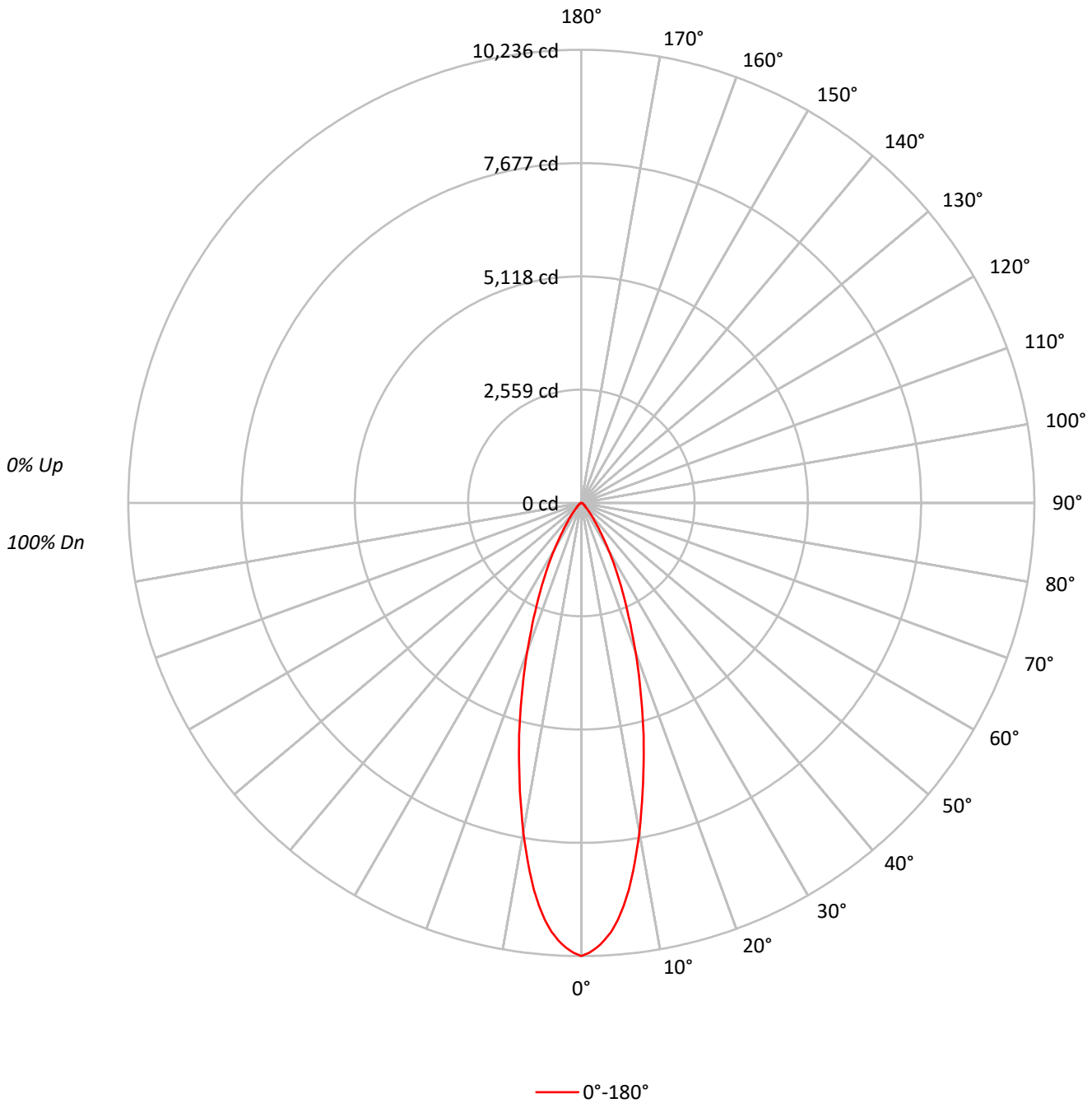
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 512.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 12.0
Input Current (Ain): 0.684
Voltage Rise (V): NR
Power Factor: 0.9908
Total Harmonic Distortion (THDi): 27.1%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



TEST NUMBER: G2-1802-569-40
CATALOG NUMBER: 230-8LED4025-12-CS-DIFF

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-40
 CATALOG NUMBER: 230-8LED4025-12-CS-DIFF

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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85
4	100	94	89	85	99	92	88	85	90	87	84	88	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	68	66
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	78	71	66	63	70	65	62	69	65	62	68	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5050036
5°	4682079
10°	3781829
15°	2773813
20°	1873460
25°	1191820
30°	696522
35°	368189
40°	201462
45°	109127
50°	76372
55°	61159
60°	42036
65°	33155
70°	20484
75°	27069
80°	40346
85°	0



TEST NUMBER: G2-1802-569-40
 CATALOG NUMBER: 230-8LED4025-12-CS-DIFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	840.1	21.0
10°-20°	1488.7	37.2
20°-30°	1011.5	25.3
30°-40°	411.1	10.3
40°-50°	136.8	3.4
50°-60°	63.3	1.6
60°-70°	31.5	0.8
70°-80°	15.0	0.4
80°-90°	1.9	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°	3340.3	83.5
0°-40°	3751.4	93.8
0°-60°	3951.5	98.8
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°	10236	
5°	9454	840
15°	5430	1489
25°	2189	1011
35°	611	411
45°	156	137
55°	71	63
65°	28	32
75°	14	15
85°	0	2
90°	0	



TEST NUMBER: G2-1802-569-40
CATALOG NUMBER: 230-8LED4025-12-CS-DIFF

CANDELA DISTRIBUTION (FULL):

	0°
0°	10235.6
1°	10164.5
2°	10050.7
3°	9894.4
4°	9709.6
5°	9453.7
6°	9155.1
7°	8799.7
8°	8401.7
9°	7975.2
10°	7548.7
11°	7093.8
12°	6667.3
13°	6240.8
14°	5828.6
15°	5430.5
16°	5018.3
17°	4634.4
18°	4264.8
19°	3923.6
20°	3568.2
21°	3241.3
22°	2956.9
23°	2672.6
24°	2416.7
25°	2189.3
26°	1961.8
27°	1762.8
28°	1578.0
29°	1393.2
30°	1222.6
32.5°	867.2
35°	611.3
37.5°	440.7
40°	312.8
42.5°	227.5
45°	156.4
47.5°	127.9
50°	99.5
52.5°	85.3
55°	71.1
57.5°	56.9
60°	42.6
62.5°	42.6
65°	28.4



TEST NUMBER: G2-1802-569-40
CATALOG NUMBER: 230-8LED4025-12-CS-DIFF

CANDELA DISTRIBUTION (continued):

	0°
67.5°	28.4
70°	14.2
72.5°	14.2
75°	14.2
77.5°	14.2
80°	14.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)