

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: G2-1802-569-36

Luminaire Tested: **230-8LED4010-12-CS-DIFF**

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-36
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-36)
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: 230-8LED4010-12-CS-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, DIFFUSED LENS
Light Source: (1) SORAA 4000K 95 CRI 10° NSP LED
SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

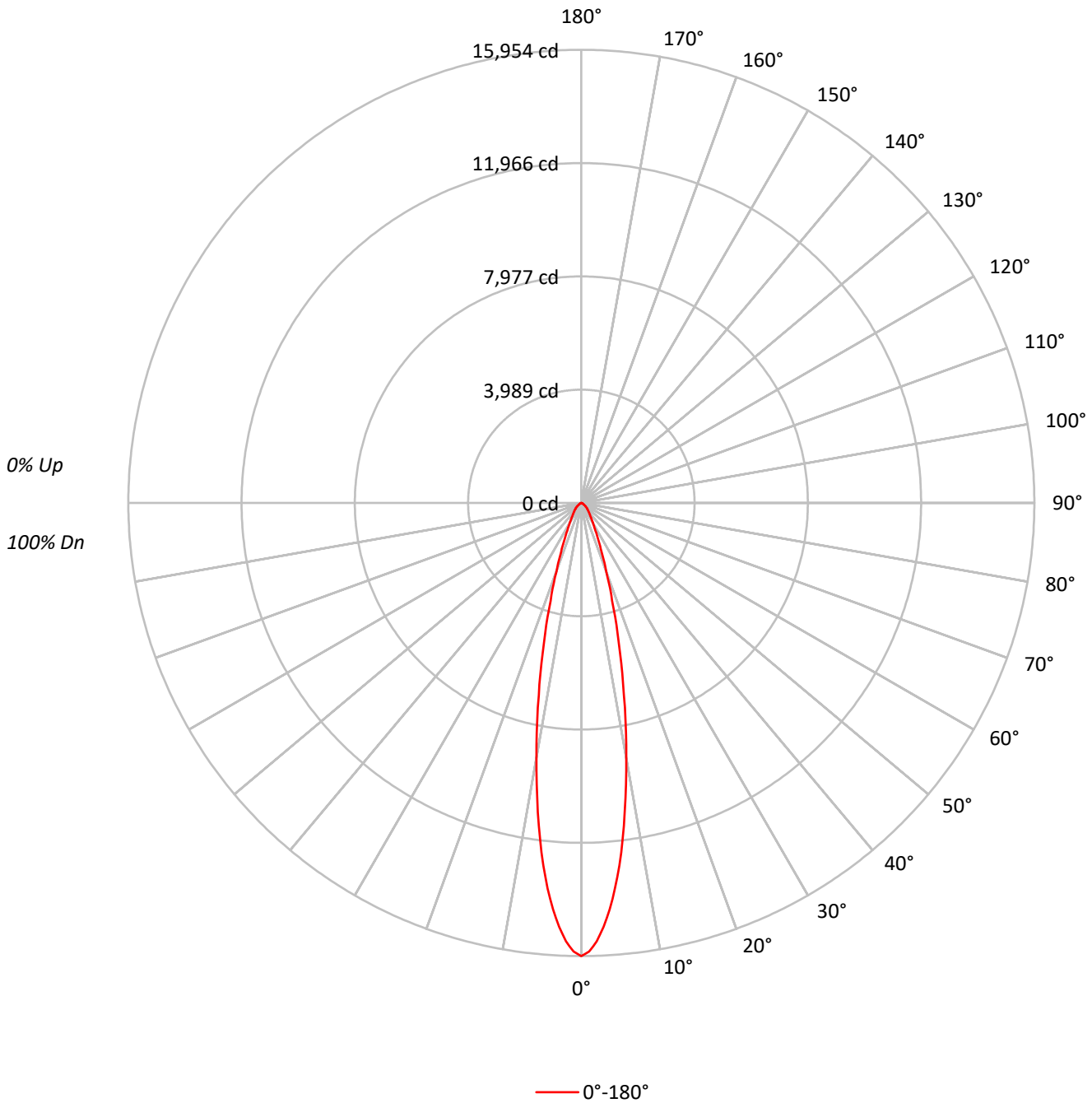
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 533.3 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): 12.0
Input Current (Ain): 0.656
Voltage Rise (V): NR
Power Factor: 0.9482
Total Harmonic Distortion (THDi): 27.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.7
Test Distance: 25 FT



TEST NUMBER: G2-1802-569-36
CATALOG NUMBER: 230-8LED4010-12-CS-DIFF

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-36
 CATALOG NUMBER: 230-8LED4010-12-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	110	108	106	106	104	103	102	101	99	98	98	97	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74
7	90	82	77	74	89	81	77	73	80	76	73	79	75	73	78	75	72	71
8	87	79	74	70	86	78	74	70	77	73	70	76	73	70	76	72	70	68
9	84	76	71	68	83	75	71	68	75	70	67	74	70	67	73	70	67	66
10	81	73	69	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7871229
5°	6745845
10°	4563575
15°	2584874
20°	1351042
25°	747113
30°	469096
35°	330605
40°	254147
45°	203462
50°	158041
55°	118017
60°	67692
65°	40043
70°	24812
75°	32788
80°	0
85°	0



TEST NUMBER: G2-1802-569-36
 CATALOG NUMBER: 230-8LED4010-12-CS-DIFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1151.6	28.8
10°-20°	1423.9	35.6
20°-30°	665.7	16.6
30°-40°	352.0	8.8
40°-50°	228.9	5.7
50°-60°	121.9	3.0
60°-70°	40.2	1.0
70°-80°	15.9	0.4
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°	3241.2	81.0
0°-40°	3593.2	89.8
0°-60°	3944.0	98.6
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°	15954	
5°	13621	###
15°	5061	1424
25°	1372	666
35°	549	352
45°	292	229
55°	137	122
65°	34	40
75°	17	16
85°	0	0
90°	0	



TEST NUMBER: G2-1802-569-36
CATALOG NUMBER: 230-8LED4010-12-CS-DIFF

CANDELA DISTRIBUTION (FULL):

	0°
0°	15953.7
1°	15799.4
2°	15439.1
3°	14941.6
4°	14341.2
5°	13620.7
6°	12831.6
7°	11939.6
8°	10996.1
9°	10035.4
10°	9109.1
12.5°	6930.4
15°	5060.6
17.5°	3602.5
20°	2573.2
22.5°	1852.7
25°	1372.4
27.5°	1029.3
30°	823.4
32.5°	651.9
35°	548.9
37.5°	463.2
40°	394.6
42.5°	343.1
45°	291.6
47.5°	257.3
50°	205.9
52.5°	171.5
55°	137.2
57.5°	102.9
60°	68.6
62.5°	51.5
65°	34.3
67.5°	34.3
70°	17.2
72.5°	17.2
75°	17.2
77.5°	17.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)