

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: P246966

Luminaire Tested: **230-8LED3010-12-BK-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246966
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-25)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED3010-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 3000K 95 CRI 10°NSP LED
SM16-07-10D-930-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

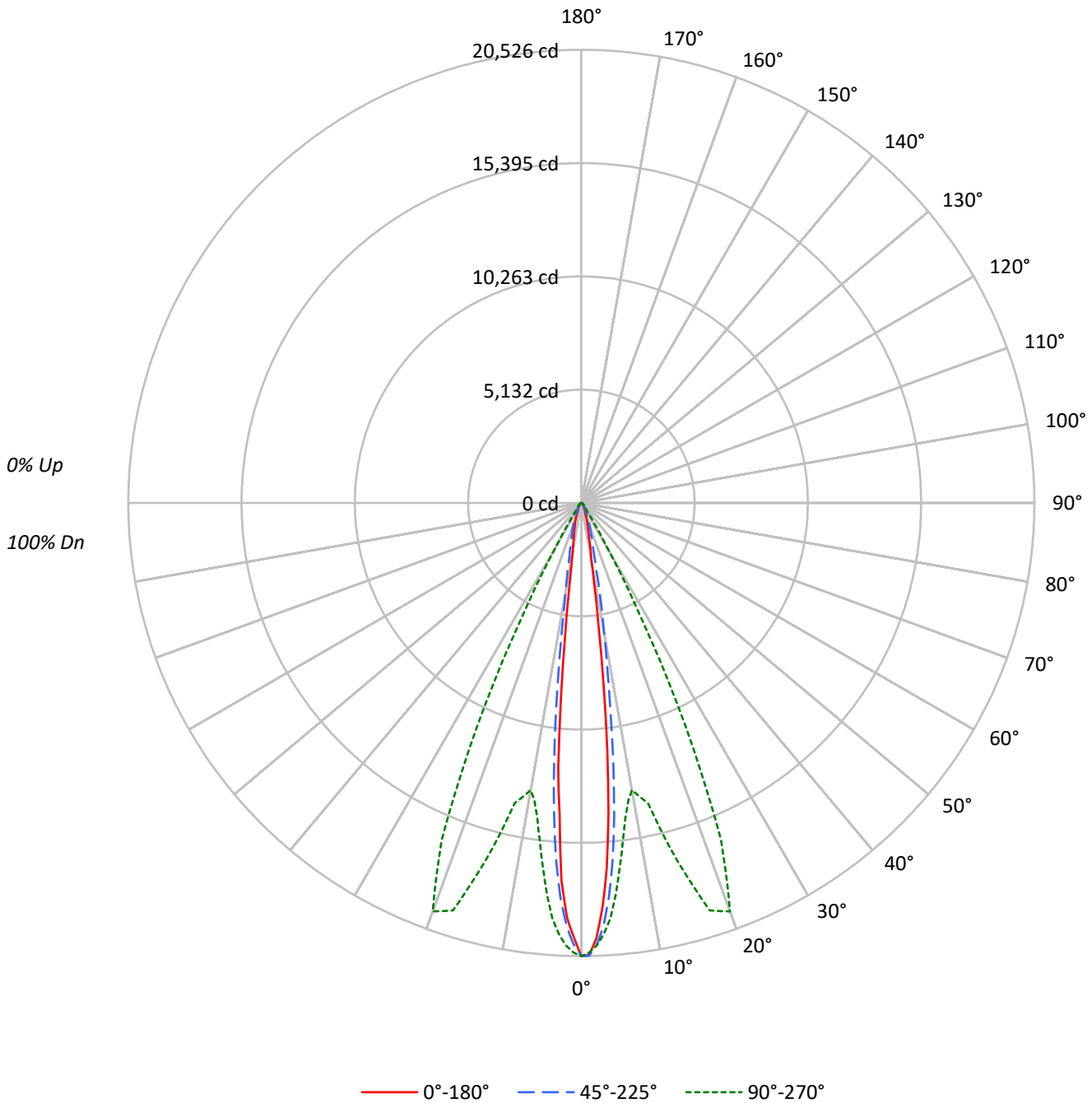
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 500.0 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	81	80
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	83	81	78	77
7	92	85	80	77	91	84	79	76	83	79	76	82	78	76	81	78	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10127059	10127059	10127059
5°	6987831	8819565	5955056
10°	1298368	6617687	1124223
15°	580864	8563346	613605
20°	298540	10337162	373411
25°	189228	6073095	197938
30°	135077	1367806	153308
35°	105223	285553	113775
40°	81474	173317	91843
45°	65937	131804	77101
50°	47896	97097	60177
55°	41375	67438	53675
60°	15788	15788	31675
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1131.7	28.3
10°-20°	1436.0	35.9
20°-30°	1071.3	26.8
30°-40°	200.1	5.0
40°-50°	105.8	2.6
50°-60°	50.3	1.3
60°-70°	4.7	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°	3639.1	91.0
0°-40°	3839.2	96.0
0°-60°	3995.3	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°	45°	90°	135°	180°	Flux
0°	20526	20526	20526	20526	20526	
5°	14109	16275	17808	14220	12024	902
15°	1137	1943	16765	1770	1201	340
25°	348	601	11156	633	364	165
35°	175	237	474	237	189	107
45°	94	126	189	126	110	72
55°	48	48	78	62	62	37
65°	0	0	0	0	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	20525.9	20525.9	20525.9	20525.9	20525.9	20525.9	20525.9	20525.9	20525.9
1°	20461.8	20525.9	20509.9	20493.8	20367.3	20178.4	20003.7	19830.8	19672.2
2°	19704.2	19941.3	20035.8	20162.3	20051.8	19688.2	19166.0	18756.0	18786.3
3°	18328.2	18896.8	19182.0	19608.0	19545.6	18928.9	17980.7	17159.0	17128.7
4°	16544.1	17269.5	17902.2	18802.4	18850.5	17886.2	16291.0	14963.1	14173.5
5°	14109.3	15137.8	16274.9	17681.2	17807.8	16574.4	14219.8	12293.1	12024.0
6°	11250.4	12624.6	14235.9	16226.8	16622.5	14900.7	11851.1	9259.5	8879.8
7°	8311.2	9844.1	11881.4	14710.0	15437.2	13287.7	9305.8	6462.9	6051.2
8°	5530.7	7015.5	9512.6	13146.9	14362.4	11724.5	7047.5	4377.5	4060.3
9°	3682.4	4709.1	7427.2	11881.4	13621.0	10475.1	5309.7	3112.0	2844.7
10°	2591.6	3192.2	5908.6	10965.2	13209.2	9528.6	4060.3	2433.0	2244.0
12.5°	1595.2	1802.0	3128.1	9402.1	13920.4	7678.5	2497.1	1691.5	1579.2
15°	1137.2	1295.8	1942.8	8674.9	16765.1	6651.9	1769.9	1295.8	1201.3
17.5°	853.8	980.3	1438.4	8248.9	19356.7	5924.6	1374.2	1010.6	932.2
20°	568.6	679.1	1090.8	7284.6	19688.2	4865.9	1074.8	805.6	711.2
22.5°	426.0	490.2	821.7	5261.6	16528.0	3413.3	821.7	584.6	474.1
25°	347.6	379.6	600.7	2955.2	11155.9	1990.9	632.7	426.0	363.6
27.5°	285.2	315.5	442.0	1454.4	5846.2	1169.2	458.1	331.5	315.5
30°	237.1	253.1	347.6	759.3	2400.9	679.1	363.6	285.2	269.1
32.5°	188.9	221.0	285.2	458.1	964.3	442.0	285.2	237.1	221.0
35°	174.7	188.9	237.1	331.5	474.1	315.5	237.1	205.0	188.9
37.5°	142.6	174.7	205.0	253.1	331.5	253.1	205.0	188.9	174.7
40°	126.5	142.6	174.7	221.0	269.1	221.0	174.7	158.6	142.6
42.5°	110.5	126.5	158.6	174.7	221.0	174.7	158.6	142.6	126.5
45°	94.5	110.5	126.5	158.6	188.9	158.6	126.5	126.5	110.5
47.5°	78.4	94.5	110.5	126.5	158.6	126.5	110.5	94.5	94.5
50°	62.4	78.4	94.5	110.5	126.5	110.5	94.5	78.4	78.4
52.5°	48.1	62.4	78.4	78.4	94.5	78.4	78.4	62.4	62.4
55°	48.1	48.1	48.1	62.4	78.4	62.4	62.4	48.1	62.4
57.5°	32.1	32.1	32.1	32.1	32.1	32.1	48.1	48.1	48.1
60°	16.0	16.0	16.0	16.0	16.0	16.0	32.1	32.1	32.1
62.5°	0.0	0.0	0.0	0.0	16.0	16.0	16.0	16.0	16.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)