

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: P221857

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED3597-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264.4 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

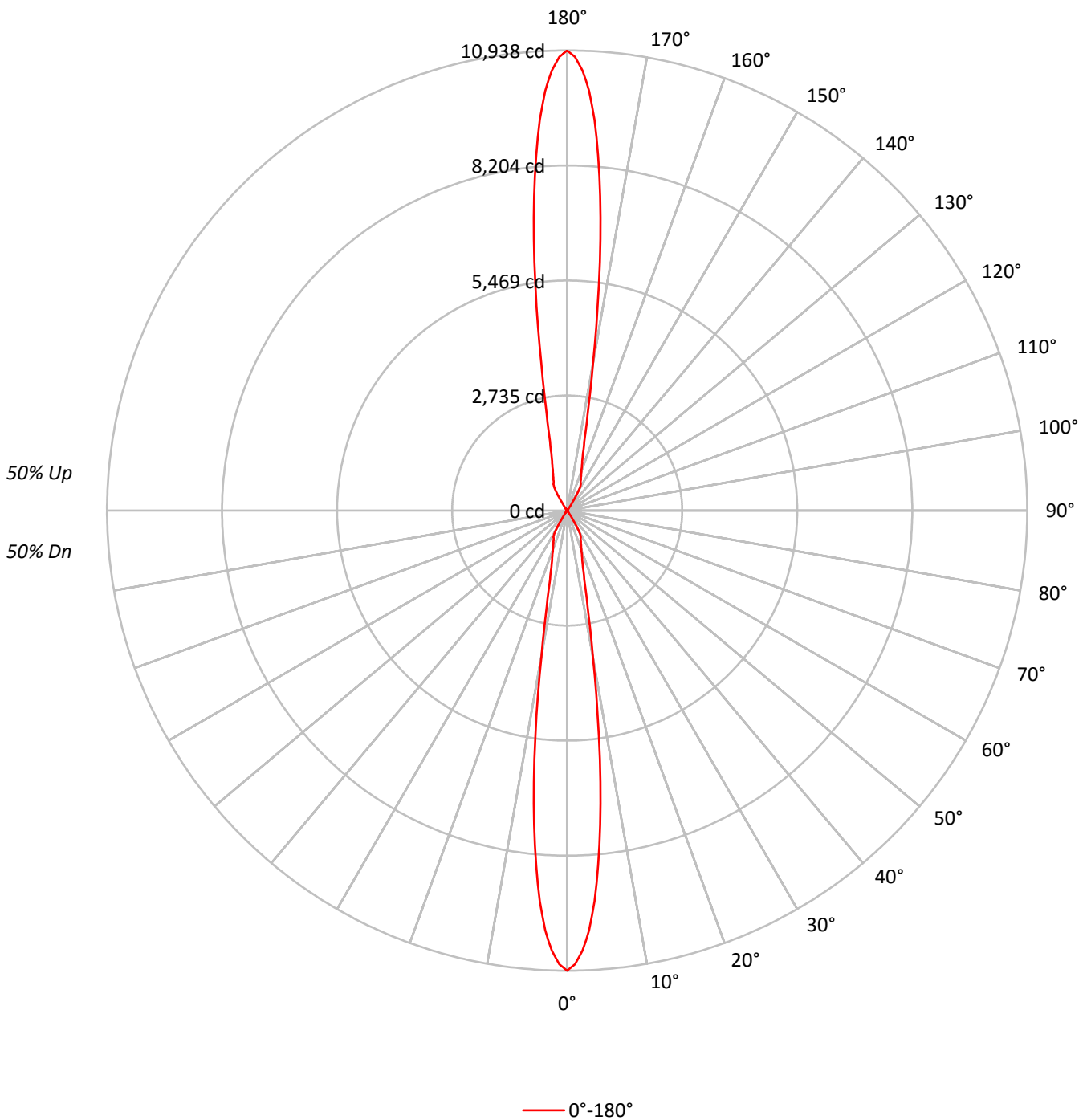
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1349167
5°	1048419
10°	444281
15°	189949
20°	129700
25°	103366
30°	77281
35°	10239
40°	5475
45°	3995
50°	4260
55°	4645
60°	5181
65°	5954
70°	6924
75°	8245
80°	9660
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.0	19.6
10°-20°	457.9	14.0
20°-30°	353.3	10.8
30°-40°	97.9	3.0
40°-50°	19.0	0.6
50°-60°	19.4	0.6
60°-70°	20.2	0.6
70°-80°	18.0	0.6
80°-90°	7.6	0.2
90°-100°	7.6	0.2
100°-110°	18.0	0.6
110°-120°	20.2	0.6
120°-130°	19.4	0.6
130°-140°	19.0	0.6
140°-150°	97.9	3.0
150°-160°	353.3	10.8
160°-170°	457.9	14.0
170°-180°	639.0	19.6
0°-30°	1450.2	44.4
0°-40°	1548.1	47.4
0°-60°	1586.4	48.6
0°-90°	1632.2	50.0
90°-120°	45.8	1.4
90°-150°	182.0	5.6
90°-180°	1632.0	50.0
0°-180°	3264.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10938	
5°	8468	639
15°	1488	458
25°	760	353
35°	68	98
45°	23	19
55°	22	19
65°	20	20
75°	17	18
85°	7	7
90°	0	1
95°	7	7
105°	17	18
115°	20	20
125°	22	19
135°	23	19
145°	68	98
155°	760	353
165°	1488	458
175°	8468	639
180°	10938	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10938.1
1°	10784.9
2°	10467.2
3°	9984.6
4°	9313.5
5°	8467.5
6°	7512.1
7°	6503.5
8°	5411.6
9°	4421.6
10°	3547.2
11°	2858.1
12°	2335.3
13°	1957.1
14°	1689.5
15°	1487.5
16°	1337.3
17°	1224.8
18°	1136.5
19°	1059.2
20°	988.1
22.5°	855.9
25°	759.5
26°	734.8
27°	713.8
28°	688.4
29°	633.4
30°	542.6
32.5°	260.8
35°	68.0
37.5°	43.9
40°	34.0
42.5°	25.3
45°	22.9
47.5°	22.2
50°	22.2
52.5°	21.6
55°	21.6
57.5°	21.6
60°	21.0
62.5°	21.0
65°	20.4
67.5°	19.8
70°	19.2
72.5°	18.5



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CANDELA DISTRIBUTION (continued):

	0°
75°	17.3
77.5°	16.1
80°	13.6
82.5°	11.1
85°	6.8
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.8
97.5°	11.1
100°	13.6
102.5°	16.1
105°	17.3
107.5°	18.5
110°	19.2
112.5°	19.8
115°	20.4
117.5°	21.0
120°	21.0
122.5°	21.6
125°	21.6
127.5°	21.6
130°	22.2
132.5°	22.2
135°	22.9
137.5°	25.3
140°	34.0
142.5°	43.9
145°	68.0
147.5°	260.8
150°	542.6
151°	633.4
152°	688.4
153°	713.8
154°	734.8
155°	759.5
157.5°	855.9
160°	988.1
161°	1059.2
162°	1136.5
163°	1224.8
164°	1337.3
165°	1487.5
166°	1689.5
167°	1957.1



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CANDELA DISTRIBUTION (continued):

	0°
168°	2335.3
169°	2858.1
170°	3547.2
171°	4421.6
172°	5411.6
173°	6503.5
174°	7512.1
175°	8467.5
176°	9313.5
177°	9984.6
178°	10467.2
179°	10784.9
180°	10938.1

(END OF REPORT)