

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: P221849

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-M-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
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-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3962.8 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

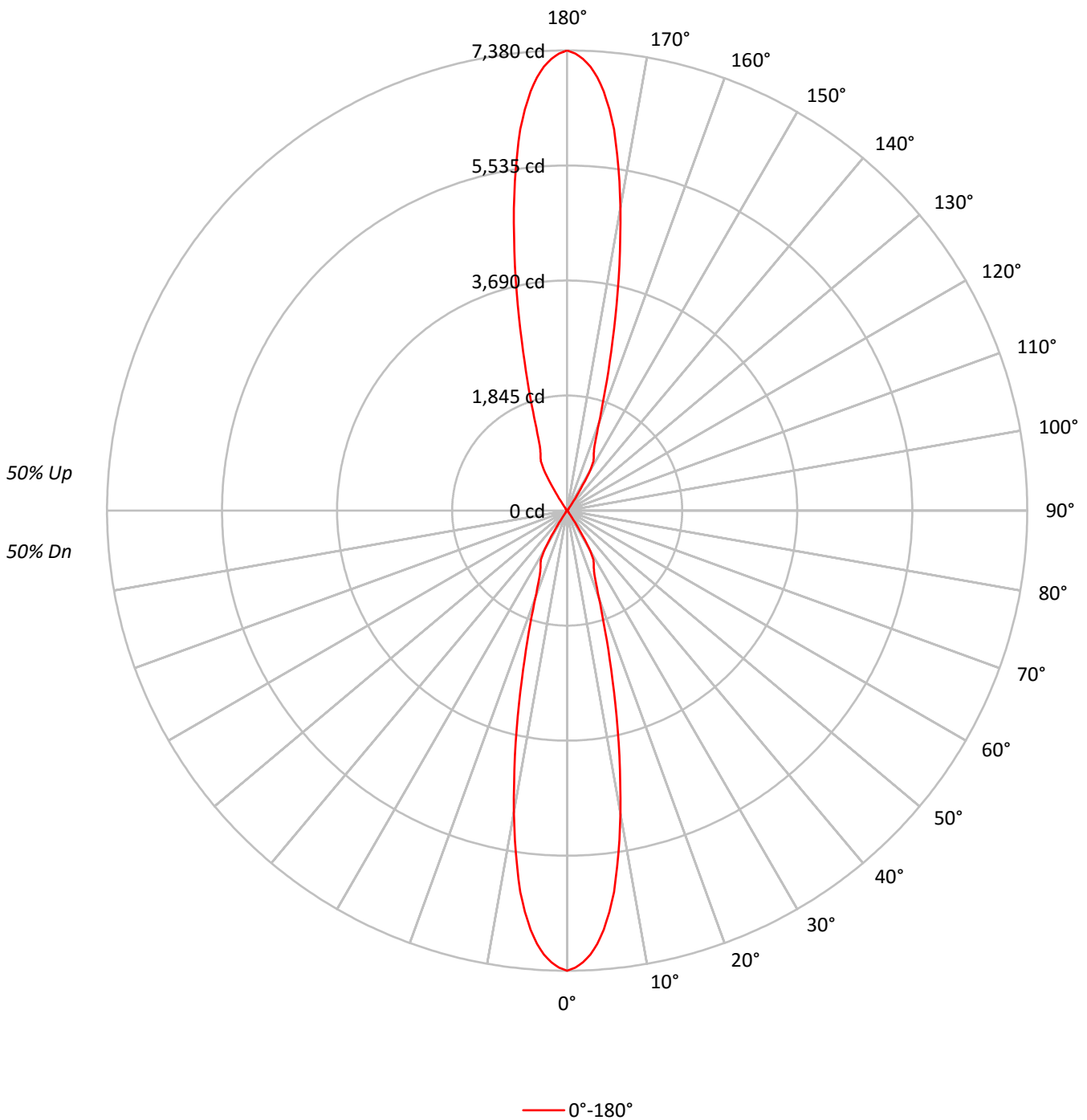
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	95	92	93	91	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67		62	60	59		52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57		56	53	51		48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53		53	51	49		47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50		51	48	46		45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47		49	46	44		43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45		47	44	42		42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43		45	42	40		41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41		43	40	38		39	37	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	910303
5°	835169
10°	616197
15°	359671
20°	195042
25°	137839
30°	99884
35°	12423
40°	4251
45°	1675
50°	1075
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.8	14.8
10°-20°	784.3	19.8
20°-30°	475.8	12.0
30°-40°	121.7	3.1
40°-50°	8.7	0.2
50°-60°	3.6	0.1
60°-70°	1.6	0.0
70°-80°	0.8	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.8	0.0
110°-120°	1.6	0.0
120°-130°	3.6	0.1
130°-140°	8.7	0.2
140°-150°	121.7	3.1
150°-160°	475.8	12.0
160°-170°	784.3	19.8
170°-180°	584.8	14.8
0°-30°	1844.9	46.6
0°-40°	1966.7	49.6
0°-60°	1978.9	49.9
0°-90°	1981.4	50.0
90°-120°	2.5	0.1
90°-150°	136.5	3.4
90°-180°	1981.0	50.0
0°-180°	3962.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7380	
5°	6745	585
15°	2817	784
25°	1013	476
35°	82	122
45°	10	9
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	4
135°	10	9
145°	82	122
155°	1013	476
165°	2817	784
175°	6745	585
180°	7380	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7380.1
1°	7332.8
2°	7248.8
3°	7128.7
4°	6964.6
5°	6745.2
6°	6471.4
7°	6163.1
8°	5769.2
9°	5348.9
10°	4919.8
11°	4468.2
12°	4024.7
13°	3600.4
14°	3192.9
15°	2816.6
16°	2480.3
17°	2176.9
18°	1906.3
19°	1678.1
20°	1485.9
21°	1334.6
22°	1214.5
23°	1125.7
24°	1062.4
25°	1012.8
26°	972.7
27°	938.3
28°	897.5
29°	823.0
30°	701.3
32.5°	333.9
35°	82.5
37.5°	44.8
40°	26.4
42.5°	12.0
45°	9.6
47.5°	8.0
50°	5.6
52.5°	4.8
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	2.4
120°	2.4
122.5°	3.2
125°	4.0
127.5°	4.8
130°	5.6
132.5°	8.0
135°	9.6
137.5°	12.0
140°	26.4
142.5°	44.8
145°	82.5
147.5°	333.9
150°	701.3
151°	823.0
152°	897.5
153°	938.3
154°	972.7
155°	1012.8
156°	1062.4
157°	1125.7
158°	1214.5
159°	1334.6
160°	1485.9
161°	1678.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1906.3
163°	2176.9
164°	2480.3
165°	2816.6
166°	3192.9
167°	3600.4
168°	4024.7
169°	4468.2
170°	4919.8
171°	5348.9
172°	5769.2
173°	6163.1
174°	6471.4
175°	6745.2
176°	6964.6
177°	7128.7
178°	7248.8
179°	7332.8
180°	7380.1

(END OF REPORT)