

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: P221858

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221858
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-L3-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: 4229.1 lumens
Efficiency: N/A
Efficacy: 73.9 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

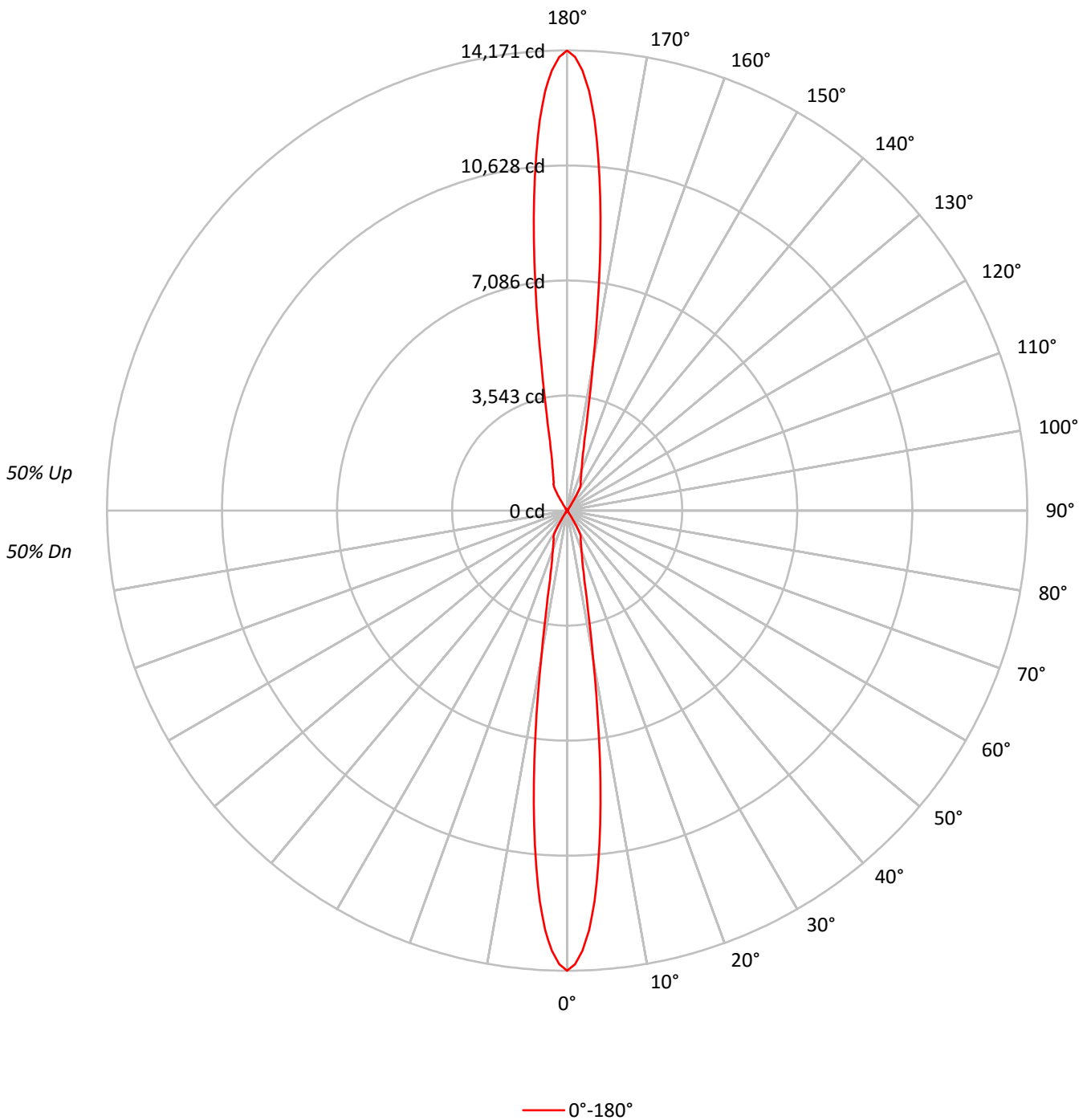
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1747919
5°	1358270
10°	575579
15°	246084
20°	168041
25°	133919
30°	100112
35°	13266
40°	7085
45°	5163
50°	5526
55°	6021
60°	6710
65°	7705
70°	8944
75°	10675
80°	12502
85°	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.8	19.6
10°-20°	593.2	14.0
20°-30°	457.8	10.8
30°-40°	126.8	3.0
40°-50°	24.6	0.6
50°-60°	25.1	0.6
60°-70°	26.1	0.6
70°-80°	23.4	0.6
80°-90°	9.8	0.2
90°-100°	9.8	0.2
100°-110°	23.4	0.6
110°-120°	26.1	0.6
120°-130°	25.1	0.6
130°-140°	24.6	0.6
140°-150°	126.8	3.0
150°-160°	457.8	10.8
160°-170°	593.2	14.0
170°-180°	827.8	19.6
0°-30°	1878.8	44.4
0°-40°	2005.6	47.4
0°-60°	2055.3	48.6
0°-90°	2114.5	50.0
90°-120°	59.2	1.4
90°-150°	235.8	5.6
90°-180°	2115.0	50.0
0°-180°	4229.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14171	
5°	10970	828
15°	1927	593
25°	984	458
35°	88	127
45°	30	25
55°	28	25
65°	26	26
75°	22	23
85°	9	9
90°	0	1
95°	9	9
105°	22	23
115°	26	26
125°	28	25
135°	30	25
145°	88	127
155°	984	458
165°	1927	593
175°	10970	828
180°	14171	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14170.9
1°	13972.3
2°	13560.8
3°	12935.5
4°	12066.1
5°	10970.0
6°	9732.3
7°	8425.7
8°	7011.0
9°	5728.4
10°	4595.5
11°	3702.8
12°	3025.5
13°	2535.5
14°	2188.9
15°	1927.1
16°	1732.5
17°	1586.8
18°	1472.3
19°	1372.3
20°	1280.2
22.5°	1108.9
25°	984.0
26°	951.9
27°	924.7
28°	891.9
29°	820.6
30°	702.9
32.5°	337.9
35°	88.1
37.5°	56.8
40°	44.0
42.5°	32.8
45°	29.6
47.5°	28.8
50°	28.8
52.5°	28.0
55°	28.0
57.5°	28.0
60°	27.2
62.5°	27.2
65°	26.4
67.5°	25.6
70°	24.8
72.5°	24.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	22.4
77.5°	20.8
80°	17.6
82.5°	14.4
85°	8.8
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.8
97.5°	14.4
100°	17.6
102.5°	20.8
105°	22.4
107.5°	24.0
110°	24.8
112.5°	25.6
115°	26.4
117.5°	27.2
120°	27.2
122.5°	28.0
125°	28.0
127.5°	28.0
130°	28.8
132.5°	28.8
135°	29.6
137.5°	32.8
140°	44.0
142.5°	56.8
145°	88.1
147.5°	337.9
150°	702.9
151°	820.6
152°	891.9
153°	924.7
154°	951.9
155°	984.0
157.5°	1108.9
160°	1280.2
161°	1372.3
162°	1472.3
163°	1586.8
164°	1732.5
165°	1927.1
166°	2188.9
167°	2535.5



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CANDELA DISTRIBUTION (continued):

	0°
168°	3025.5
169°	3702.8
170°	4595.5
171°	5728.4
172°	7011.0
173°	8425.7
174°	9732.3
175°	10970.0
176°	12066.1
177°	12935.5
178°	13560.8
179°	13972.3
180°	14170.9

(END OF REPORT)