

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: P221815

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-W-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)  
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]-LED3097-W-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2830.6 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

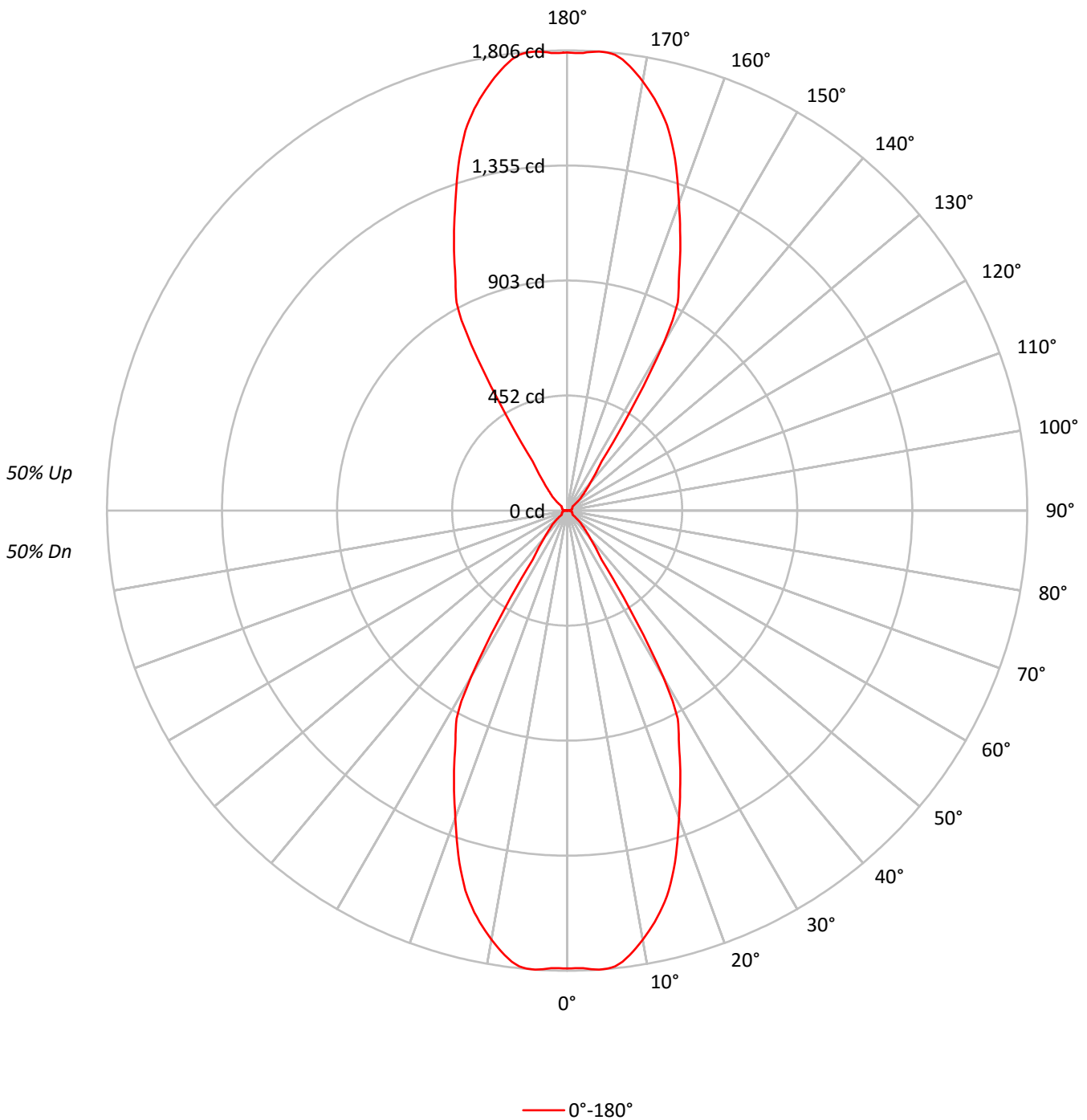
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	93	90	92	89	87	84	76	74	73		64	63	62		53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64		59	57	56		50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58		55	53	51		47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52		51	49	46		44	42	41	37
5	76	67	60	55	71	63	57	52	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44		45	42	39		39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40		42	39	37		37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37		40	37	34		35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35		38	34	32		34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32		36	32	30		32	30	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	221701
5°	223489
10°	214125
15°	197023
20°	168409
25°	141772
30°	107162
35°	35612
40°	22639
45°	15403
50°	9000
55°	5398
60°	5921
65°	6508
70°	7465
75°	9103
80°	10868
85°	10756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	6.0
10°-20°	425.6	15.0
20°-30°	476.6	16.8
30°-40°	199.4	7.0
40°-50°	69.2	2.4
50°-60°	25.2	0.9
60°-70°	22.1	0.8
70°-80°	19.7	0.7
80°-90°	8.3	0.3
90°-100°	8.3	0.3
100°-110°	19.7	0.7
110°-120°	22.1	0.8
120°-130°	25.2	0.9
130°-140°	69.2	2.4
140°-150°	199.4	7.0
150°-160°	476.6	16.8
160°-170°	425.6	15.0
170°-180°	169.2	6.0
0°-30°	1071.4	37.8
0°-40°	1270.7	44.9
0°-60°	1365.1	48.2
0°-90°	1415.3	50.0
90°-120°	50.2	1.8
90°-150°	343.9	12.2
90°-180°	1415.0	50.0
0°-180°	2830.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1797	
5°	1805	169
15°	1543	426
25°	1042	477
35°	236	199
45°	88	69
55°	25	25
65°	22	22
75°	19	20
85°	8	8
90°	0	1
95°	8	8
105°	19	20
115°	22	22
125°	25	25
135°	88	69
145°	236	199
155°	1042	477
165°	1543	426
175°	1805	169
180°	1797	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1797.4
1°	1795.7
2°	1797.4
3°	1802.8
4°	1806.1
5°	1805.0
6°	1798.4
7°	1784.3
8°	1761.9
9°	1736.9
10°	1709.6
11°	1680.8
12°	1651.3
13°	1618.1
14°	1582.7
15°	1542.9
16°	1495.5
17°	1445.9
18°	1392.6
19°	1337.0
20°	1283.0
21°	1232.9
22°	1184.4
23°	1136.5
24°	1089.6
25°	1041.7
26°	999.7
27°	962.7
28°	924.6
29°	854.8
30°	752.4
32.5°	451.1
35°	236.5
37.5°	180.9
40°	140.6
42.5°	109.5
45°	88.3
47.5°	70.8
50°	46.9
52.5°	27.8
55°	25.1
57.5°	24.5
60°	24.0
62.5°	23.4
65°	22.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	21.2
70°	20.7
72.5°	20.2
75°	19.1
77.5°	17.4
80°	15.3
82.5°	12.0
85°	7.6
87.5°	3.3
90°	0.0
92.5°	3.3
95°	7.6
97.5°	12.0
100°	15.3
102.5°	17.4
105°	19.1
107.5°	20.2
110°	20.7
112.5°	21.2
115°	22.3
117.5°	23.4
120°	24.0
122.5°	24.5
125°	25.1
127.5°	27.8
130°	46.9
132.5°	70.8
135°	88.3
137.5°	109.5
140°	140.6
142.5°	180.9
145°	236.5
147.5°	451.1
150°	752.4
151°	854.8
152°	924.6
153°	962.7
154°	999.7
155°	1041.7
156°	1089.6
157°	1136.5
158°	1184.4
159°	1232.9
160°	1283.0
161°	1337.0



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1392.6
163°	1445.9
164°	1495.5
165°	1542.9
166°	1582.7
167°	1618.1
168°	1651.3
169°	1680.8
170°	1709.6
171°	1736.9
172°	1761.9
173°	1784.3
174°	1798.4
175°	1805.0
176°	1806.1
177°	1802.8
178°	1797.4
179°	1795.7
180°	1797.4

(END OF REPORT)