

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: P221881

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-S-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221881  
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]-LED4080-S-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4077.4 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

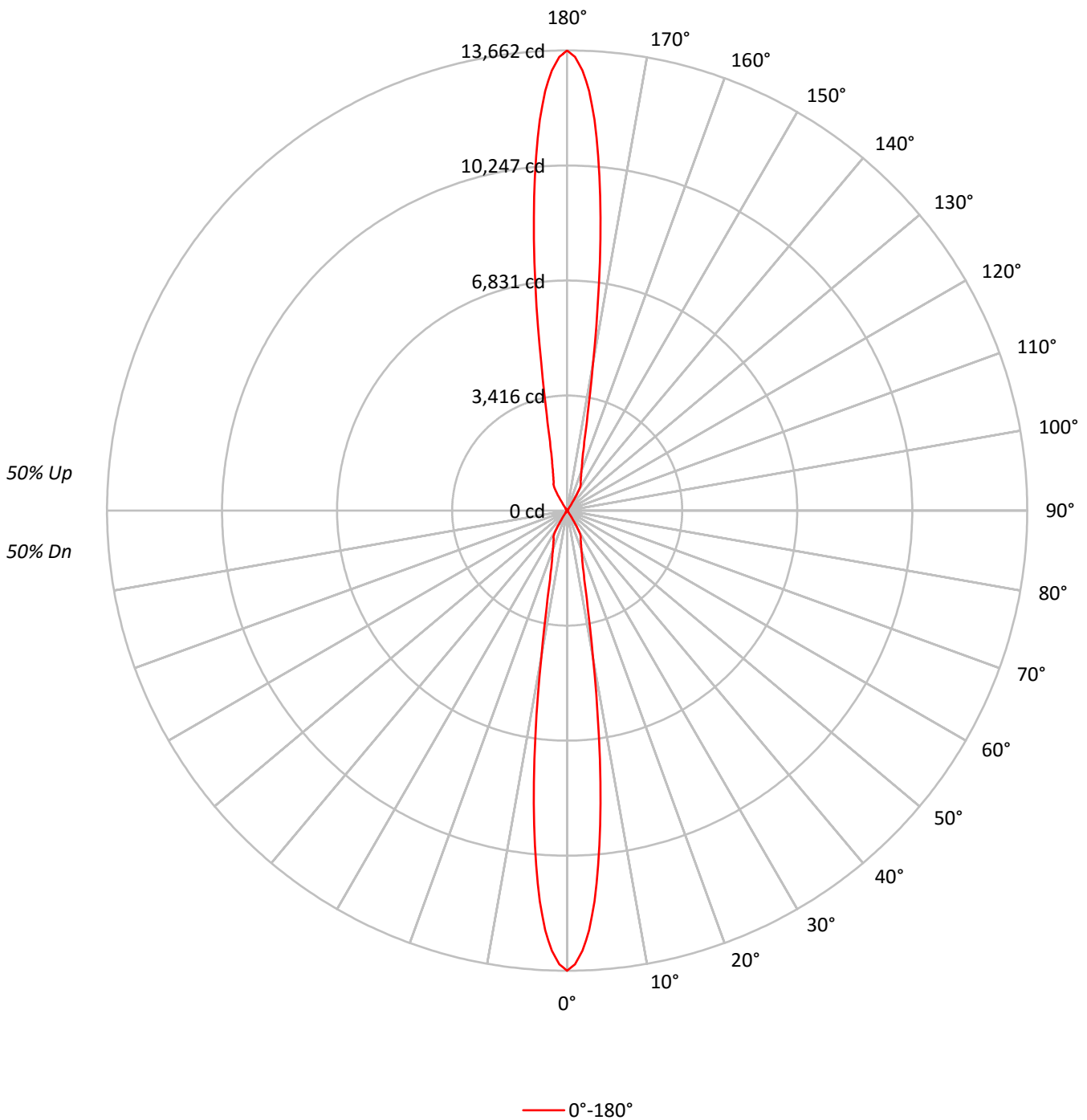
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1685160
5°	1309511
10°	554913
15°	237248
20°	162003
25°	129101
30°	96523
35°	12784
40°	6843
45°	4989
50°	5335
55°	5806
60°	6463
65°	7442
70°	8619
75°	10294
80°	12075
85°	12029



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	798.1	19.6
10°-20°	571.9	14.0
20°-30°	441.3	10.8
30°-40°	122.3	3.0
40°-50°	23.7	0.6
50°-60°	24.2	0.6
60°-70°	25.2	0.6
70°-80°	22.5	0.6
80°-90°	9.5	0.2
90°-100°	9.5	0.2
100°-110°	22.5	0.6
110°-120°	25.2	0.6
120°-130°	24.2	0.6
130°-140°	23.7	0.6
140°-150°	122.3	3.0
150°-160°	441.3	10.8
160°-170°	571.9	14.0
170°-180°	798.1	19.6
0°-30°	1811.3	44.4
0°-40°	1933.6	47.4
0°-60°	1981.5	48.6
0°-90°	2038.7	50.0
90°-120°	57.2	1.4
90°-150°	227.4	5.6
90°-180°	2039.0	50.0
0°-180°	4077.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13662	
5°	10576	798
15°	1858	572
25°	949	441
35°	85	122
45°	29	24
55°	27	24
65°	26	25
75°	22	23
85°	8	9
90°	0	1
95°	8	9
105°	22	23
115°	26	25
125°	27	24
135°	29	24
145°	85	122
155°	949	441
165°	1858	572
175°	10576	798
180°	13662	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13662.1
1°	13470.7
2°	13074.0
3°	12471.1
4°	11632.9
5°	10576.2
6°	9382.9
7°	8123.2
8°	6759.3
9°	5522.7
10°	4430.5
11°	3569.9
12°	2916.9
13°	2444.5
14°	2110.3
15°	1857.9
16°	1670.3
17°	1529.9
18°	1419.5
19°	1323.0
20°	1234.2
22.5°	1069.0
25°	948.6
26°	917.8
27°	891.5
28°	859.9
29°	791.2
30°	677.7
32.5°	325.7
35°	84.9
37.5°	54.8
40°	42.5
42.5°	31.6
45°	28.6
47.5°	27.8
50°	27.8
52.5°	27.0
55°	27.0
57.5°	27.0
60°	26.2
62.5°	26.2
65°	25.5
67.5°	24.7
70°	23.9
72.5°	23.2



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	21.6
77.5°	20.1
80°	17.0
82.5°	13.9
85°	8.5
87.5°	3.9
90°	0.0
92.5°	3.9
95°	8.5
97.5°	13.9
100°	17.0
102.5°	20.1
105°	21.6
107.5°	23.2
110°	23.9
112.5°	24.7
115°	25.5
117.5°	26.2
120°	26.2
122.5°	27.0
125°	27.0
127.5°	27.0
130°	27.8
132.5°	27.8
135°	28.6
137.5°	31.6
140°	42.5
142.5°	54.8
145°	84.9
147.5°	325.7
150°	677.7
151°	791.2
152°	859.9
153°	891.5
154°	917.8
155°	948.6
157.5°	1069.0
160°	1234.2
161°	1323.0
162°	1419.5
163°	1529.9
164°	1670.3
165°	1857.9
166°	2110.3
167°	2444.5



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	2916.9
169°	3569.9
170°	4430.5
171°	5522.7
172°	6759.3
173°	8123.2
174°	9382.9
175°	10576.2
176°	11632.9
177°	12471.1
178°	13074.0
179°	13470.7
180°	13662.1

(END OF REPORT)