

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: P221761

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221761
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]-LED2797-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2851.1 lumens
Efficiency: N/A
Efficacy: 70.9 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

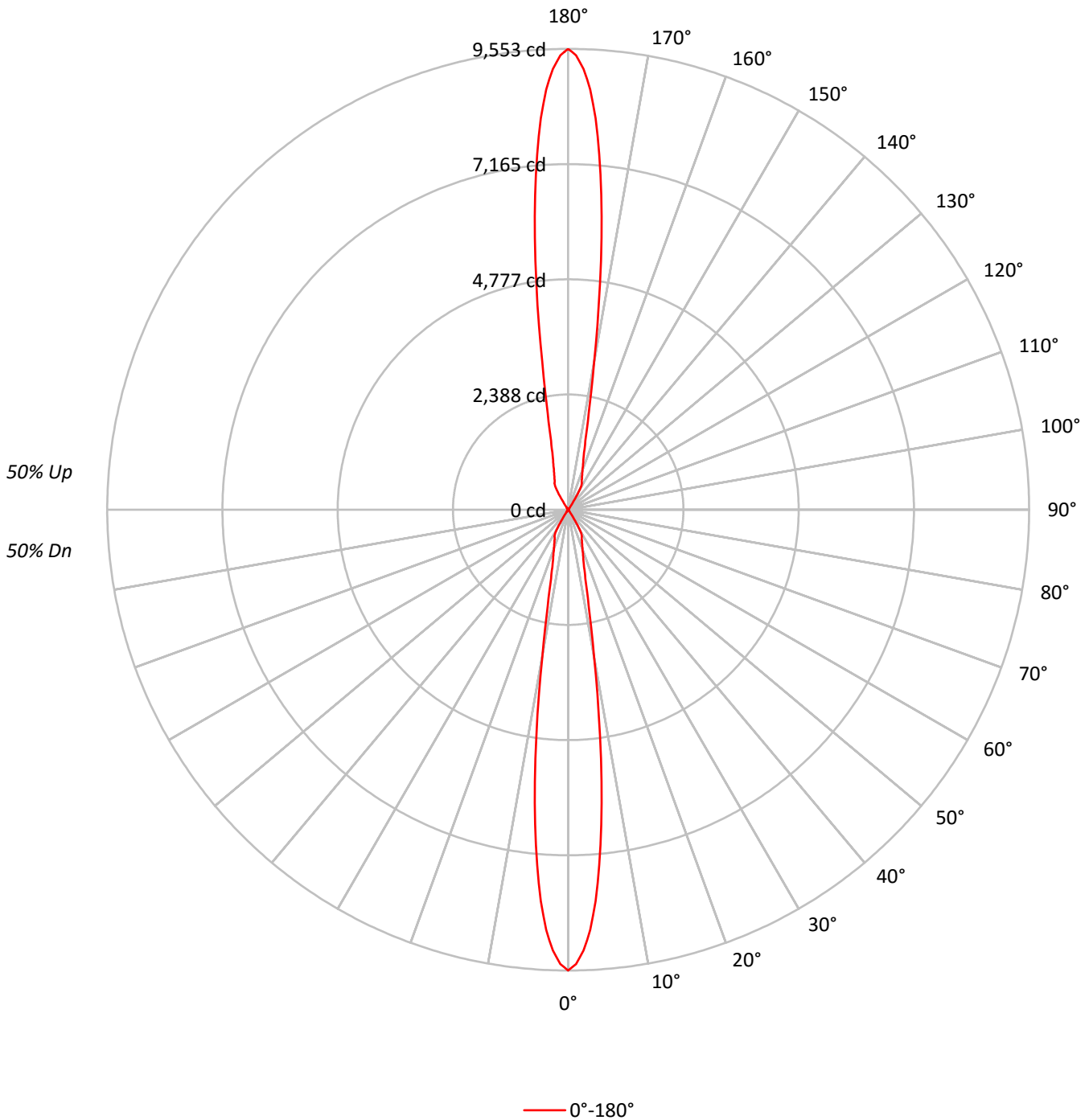
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1178345
5°	915675
10°	388020
15°	165891
20°	113279
25°	90273
30°	67496
35°	8944
40°	4782
45°	3489
50°	3723
55°	4064
60°	4539
65°	5195
70°	6023
75°	7196
80°	8453
85°	8350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.1	19.6
10°-20°	399.9	14.0
20°-30°	308.6	10.8
30°-40°	85.5	3.0
40°-50°	16.6	0.6
50°-60°	17.0	0.6
60°-70°	17.6	0.6
70°-80°	15.7	0.6
80°-90°	6.6	0.2
90°-100°	6.6	0.2
100°-110°	15.7	0.6
110°-120°	17.6	0.6
120°-130°	17.0	0.6
130°-140°	16.6	0.6
140°-150°	85.5	3.0
150°-160°	308.6	10.8
160°-170°	399.9	14.0
170°-180°	558.1	19.6
0°-30°	1266.6	44.4
0°-40°	1352.1	47.4
0°-60°	1385.6	48.6
0°-90°	1425.6	50.0
90°-120°	40.0	1.4
90°-150°	159.0	5.6
90°-180°	1426.0	50.0
0°-180°	2851.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9553	
5°	7395	558
15°	1299	400
25°	663	309
35°	59	86
45°	20	17
55°	19	17
65°	18	18
75°	15	16
85°	6	6
90°	0	1
95°	6	6
105°	15	16
115°	18	18
125°	19	17
135°	20	17
145°	59	86
155°	663	309
165°	1299	400
175°	7395	558
180°	9553	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9553.2
1°	9419.4
2°	9141.9
3°	8720.4
4°	8134.3
5°	7395.4
6°	6561.0
7°	5680.1
8°	4726.4
9°	3861.8
10°	3098.0
11°	2496.3
12°	2039.6
13°	1709.3
14°	1475.6
15°	1299.1
16°	1168.0
17°	1069.7
18°	992.6
19°	925.1
20°	863.0
22.5°	747.5
25°	663.3
26°	641.7
27°	623.4
28°	601.3
29°	553.2
30°	473.9
32.5°	227.8
35°	59.4
37.5°	38.3
40°	29.7
42.5°	22.1
45°	20.0
47.5°	19.4
50°	19.4
52.5°	18.9
55°	18.9
57.5°	18.9
60°	18.4
62.5°	18.4
65°	17.8
67.5°	17.3
70°	16.7
72.5°	16.2



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CANDELA DISTRIBUTION (continued):

	0°
75°	15.1
77.5°	14.0
80°	11.9
82.5°	9.7
85°	5.9
87.5°	2.7
90°	0.0
92.5°	2.7
95°	5.9
97.5°	9.7
100°	11.9
102.5°	14.0
105°	15.1
107.5°	16.2
110°	16.7
112.5°	17.3
115°	17.8
117.5°	18.4
120°	18.4
122.5°	18.9
125°	18.9
127.5°	18.9
130°	19.4
132.5°	19.4
135°	20.0
137.5°	22.1
140°	29.7
142.5°	38.3
145°	59.4
147.5°	227.8
150°	473.9
151°	553.2
152°	601.3
153°	623.4
154°	641.7
155°	663.3
157.5°	747.5
160°	863.0
161°	925.1
162°	992.6
163°	1069.7
164°	1168.0
165°	1299.1
166°	1475.6
167°	1709.3



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CANDELA DISTRIBUTION (continued):

	0°
168°	2039.6
169°	2496.3
170°	3098.0
171°	3861.8
172°	4726.4
173°	5680.1
174°	6561.0
175°	7395.4
176°	8134.3
177°	8720.4
178°	9141.9
179°	9419.4
180°	9553.2

(END OF REPORT)