

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: P221967

Luminaire Tested: **9004-W2-FL-LED2790-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED2790-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.7 lumens
Efficiency: N/A
Efficacy: 90.5 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

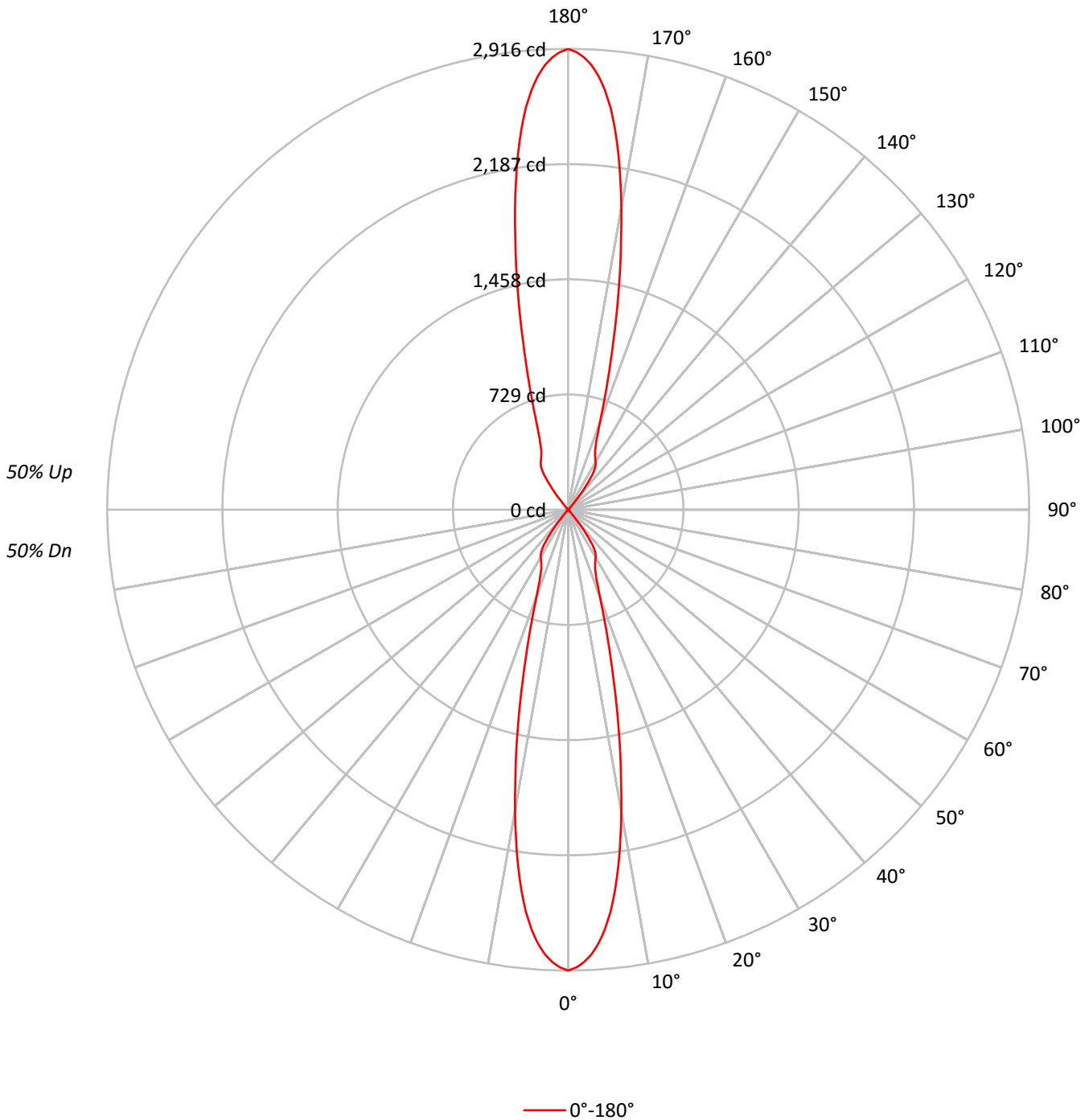
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	359725
5°	330096
10°	242544
15°	141194
20°	76998
25°	54725
30°	49323
35°	38849
40°	8630
45°	2372
50°	787
55°	473
60°	321
65°	175
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	13.0
10°-20°	308.2	17.3
20°-30°	192.8	10.8
30°-40°	143.0	8.0
40°-50°	13.3	0.7
50°-60°	2.2	0.1
60°-70°	0.7	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.7	0.0
120°-130°	2.2	0.1
130°-140°	13.3	0.7
140°-150°	143.0	8.0
150°-160°	192.8	10.8
160°-170°	308.2	17.3
170°-180°	230.9	13.0
0°-30°	731.9	41.1
0°-40°	874.9	49.1
0°-60°	890.3	49.9
0°-90°	891.3	50.0
90°-120°	1.0	0.1
90°-150°	159.4	8.9
90°-180°	891.0	50.0
0°-180°	1782.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2916	
5°	2666	231
15°	1106	308
25°	402	193
35°	258	143
45°	14	13
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	14	13
145°	258	143
155°	402	193
165°	1106	308
175°	2666	231
180°	2916	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2916.4
1°	2897.1
2°	2864.3
3°	2817.0
4°	2752.1
5°	2666.0
6°	2559.0
7°	2430.0
8°	2279.6
9°	2111.8
10°	1936.5
11°	1757.0
12°	1583.2
13°	1413.9
14°	1253.0
15°	1105.7
16°	971.7
17°	854.7
18°	749.7
19°	660.7
20°	586.6
21°	528.0
22°	481.0
23°	446.3
24°	420.7
25°	402.1
26°	388.2
27°	376.3
28°	365.2
29°	355.8
30°	346.3
32.5°	320.1
35°	258.0
37.5°	156.1
40°	53.6
42.5°	18.6
45°	13.6
47.5°	9.8
50°	4.1
52.5°	3.2
55°	2.2
57.5°	1.6
60°	1.3
62.5°	0.9
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.0
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°	0.0
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.6
115°	0.6
117.5°	0.9
120°	1.3
122.5°	1.6
125°	2.2
127.5°	3.2
130°	4.1
132.5°	9.8
135°	13.6
137.5°	18.6
140°	53.6
142.5°	156.1
145°	258.0
147.5°	320.1
150°	346.3
151°	355.8
152°	365.2
153°	376.3
154°	388.2
155°	402.1
156°	420.7
157°	446.3
158°	481.0
159°	528.0
160°	586.6
161°	660.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	749.7
163°	854.7
164°	971.7
165°	1105.7
166°	1253.0
167°	1413.9
168°	1583.2
169°	1757.0
170°	1936.5
171°	2111.8
172°	2279.6
173°	2430.0
174°	2559.0
175°	2666.0
176°	2752.1
177°	2817.0
178°	2864.3
179°	2897.1
180°	2916.4

(END OF REPORT)