

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: P222015

Luminaire Tested: **9004-W2-FL-LED3090-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222015
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-LED3090-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.6 lumens
Efficiency: N/A
Efficacy: 95.7 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

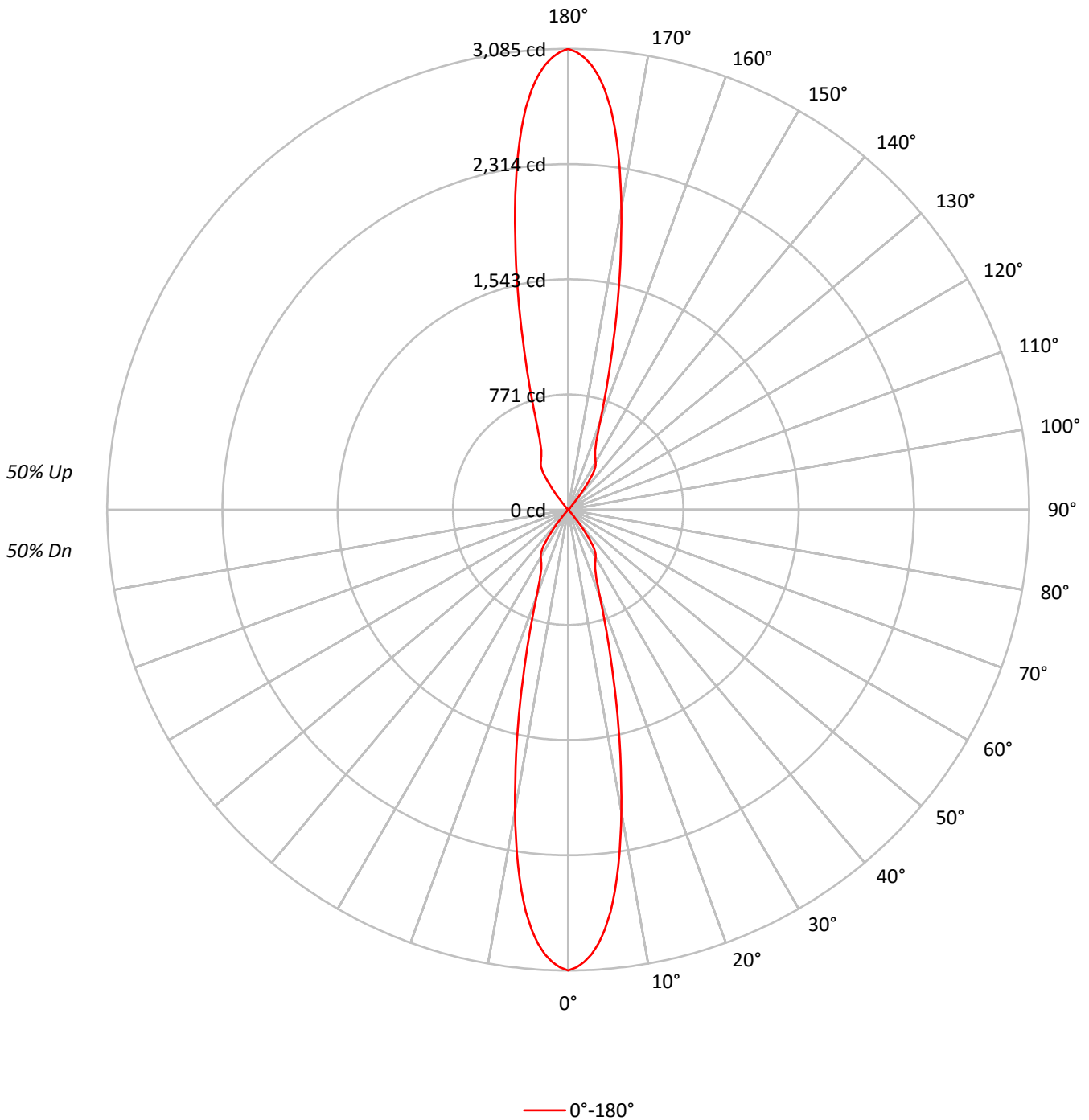
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	380521
5°	349176
10°	256559
15°	149367
20°	81448
25°	57896
30°	52171
35°	41093
40°	9130
45°	2494
50°	825
55°	495
60°	321
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	13.0
10°-20°	326.0	17.3
20°-30°	203.9	10.8
30°-40°	151.2	8.0
40°-50°	14.1	0.7
50°-60°	2.2	0.1
60°-70°	0.8	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°	0.8	0.0
120°-130°	2.2	0.1
130°-140°	14.1	0.7
140°-150°	151.2	8.0
150°-160°	203.9	10.8
160°-170°	326.0	17.3
170°-180°	244.3	13.0
0°-30°	774.2	41.1
0°-40°	925.4	49.1
0°-60°	941.7	49.9
0°-90°	942.8	50.0
90°-120°	1.1	0.1
90°-150°	168.6	8.9
90°-180°	943.0	50.0
0°-180°	1885.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3085	
5°	2820	244
15°	1170	326
25°	425	204
35°	273	151
45°	14	14
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	14
145°	273	151
155°	425	204
165°	1170	326
175°	2820	244
180°	3085	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3085.0
1°	3064.7
2°	3030.0
3°	2979.9
4°	2911.2
5°	2820.1
6°	2707.0
7°	2570.6
8°	2411.4
9°	2233.9
10°	2048.4
11°	1858.6
12°	1674.8
13°	1495.6
14°	1325.5
15°	1169.7
16°	1027.9
17°	904.1
18°	793.0
19°	698.9
20°	620.5
21°	558.5
22°	508.8
23°	472.1
24°	445.1
25°	425.4
26°	410.7
27°	398.0
28°	386.3
29°	376.3
30°	366.3
32.5°	338.6
35°	272.9
37.5°	165.1
40°	56.7
42.5°	19.7
45°	14.3
47.5°	10.3
50°	4.3
52.5°	3.3
55°	2.3
57.5°	1.7
60°	1.3
62.5°	1.0
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.7
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°	0.7
115°	0.7
117.5°	1.0
120°	1.3
122.5°	1.7
125°	2.3
127.5°	3.3
130°	4.3
132.5°	10.3
135°	14.3
137.5°	19.7
140°	56.7
142.5°	165.1
145°	272.9
147.5°	338.6
150°	366.3
151°	376.3
152°	386.3
153°	398.0
154°	410.7
155°	425.4
156°	445.1
157°	472.1
158°	508.8
159°	558.5
160°	620.5
161°	698.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	793.0
163°	904.1
164°	1027.9
165°	1169.7
166°	1325.5
167°	1495.6
168°	1674.8
169°	1858.6
170°	2048.4
171°	2233.9
172°	2411.4
173°	2570.6
174°	2707.0
175°	2820.1
176°	2911.2
177°	2979.9
178°	3030.0
179°	3064.7
180°	3085.0

(END OF REPORT)