

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: P222112

Luminaire Tested: **9004-W2-FL-LED4080-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222112
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-LED4080-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4362.9 lumens
Efficiency: N/A
Efficacy: 108.5 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

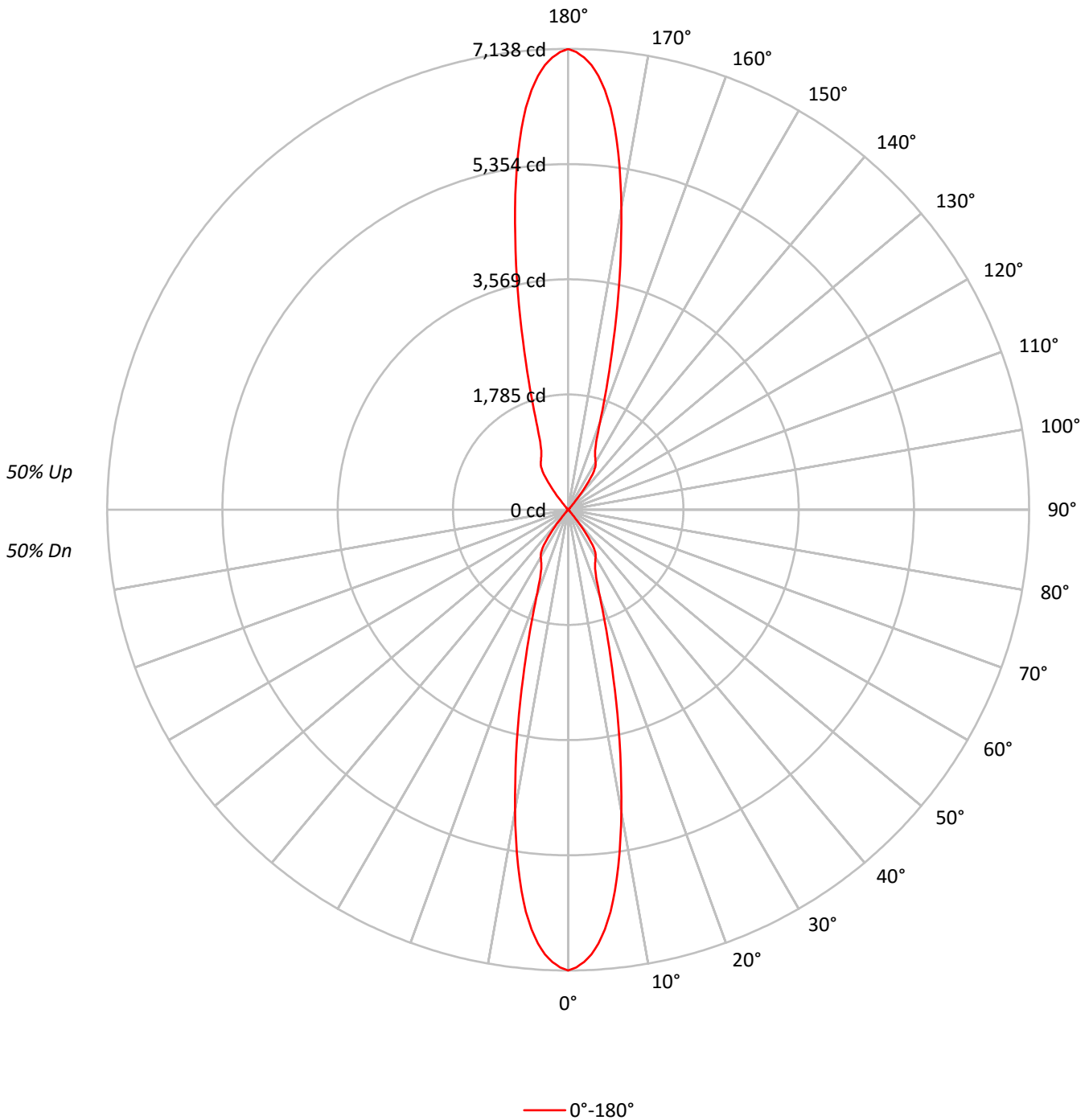
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	880379
5°	807855
10°	593590
15°	345573
20°	188452
25°	133933
30°	120707
35°	95074
40°	21125
45°	5791
50°	1919
55°	1161
60°	765
65°	438
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.2	13.0
10°-20°	754.3	17.3
20°-30°	471.7	10.8
30°-40°	349.9	8.0
40°-50°	32.6	0.7
50°-60°	5.2	0.1
60°-70°	1.8	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.8	0.0
120°-130°	5.2	0.1
130°-140°	32.6	0.7
140°-150°	349.9	8.0
150°-160°	471.7	10.8
160°-170°	754.3	17.3
170°-180°	565.2	13.0
0°-30°	1791.3	41.1
0°-40°	2141.2	49.1
0°-60°	2178.9	49.9
0°-90°	2181.5	50.0
90°-120°	2.5	0.1
90°-150°	390.2	8.9
90°-180°	2181.0	50.0
0°-180°	4362.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7138	
5°	6525	565
15°	2706	754
25°	984	472
35°	631	350
45°	33	33
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	5	5
135°	33	33
145°	631	350
155°	984	472
165°	2706	754
175°	6525	565
180°	7138	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7137.5
1°	7090.4
2°	7010.1
3°	6894.4
4°	6735.4
5°	6524.6
6°	6263.0
7°	5947.3
8°	5579.1
9°	5168.5
10°	4739.3
11°	4300.1
12°	3874.8
13°	3460.3
14°	3066.6
15°	2706.2
16°	2378.1
17°	2091.8
18°	1834.7
19°	1617.1
20°	1435.7
21°	1292.1
22°	1177.1
23°	1092.2
24°	1029.7
25°	984.1
26°	950.2
27°	920.8
28°	893.8
29°	870.7
30°	847.5
32.5°	783.5
35°	631.4
37.5°	382.1
40°	131.2
42.5°	45.5
45°	33.2
47.5°	23.9
50°	10.0
52.5°	7.7
55°	5.4
57.5°	3.9
60°	3.1
62.5°	2.3
65°	1.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.5
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	1.5
115°	1.5
117.5°	2.3
120°	3.1
122.5°	3.9
125°	5.4
127.5°	7.7
130°	10.0
132.5°	23.9
135°	33.2
137.5°	45.5
140°	131.2
142.5°	382.1
145°	631.4
147.5°	783.5
150°	847.5
151°	870.7
152°	893.8
153°	920.8
154°	950.2
155°	984.1
156°	1029.7
157°	1092.2
158°	1177.1
159°	1292.1
160°	1435.7
161°	1617.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1834.7
163°	2091.8
164°	2378.1
165°	2706.2
166°	3066.6
167°	3460.3
168°	3874.8
169°	4300.1
170°	4739.3
171°	5168.5
172°	5579.1
173°	5947.3
174°	6263.0
175°	6524.6
176°	6735.4
177°	6894.4
178°	7010.1
179°	7090.4
180°	7137.5

(END OF REPORT)