

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: P221072

Luminaire Tested: **9004-W1-FL-LED2797-M-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221072
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-W1-FL-LED2797-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1976.2 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

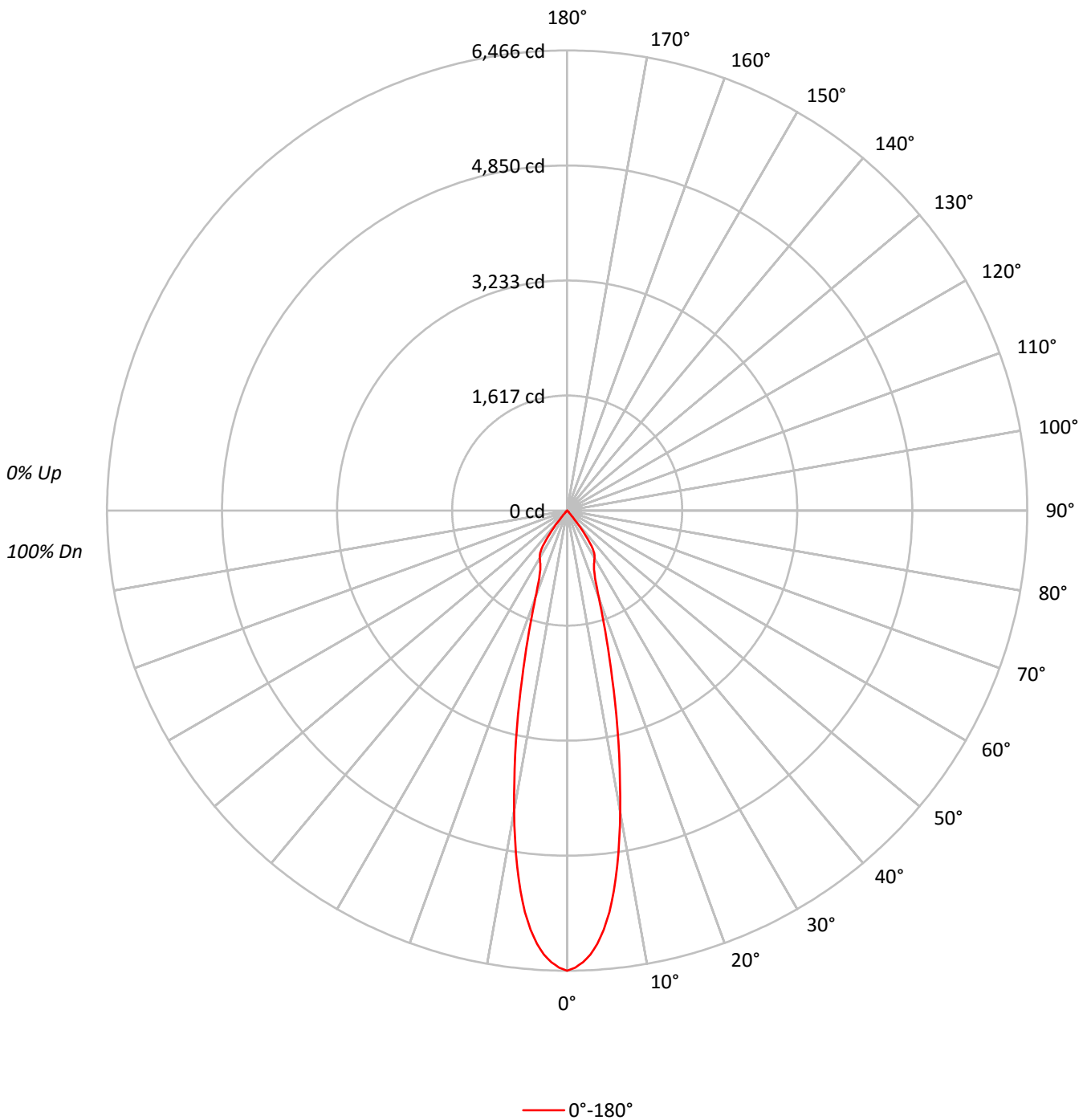
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	90		94	91	89		92	90	88	86
4	101	95	91	87	100	94	90	86	92	88	85		90	87	85		88	86	84	82
5	97	91	86	82	96	90	85	82	88	84	81		86	83	80		85	82	80	78
6	94	86	82	78	92	86	81	78	84	80	77		83	79	77		82	79	76	75
7	90	83	78	74	89	82	77	74	81	77	74		80	76	73		79	75	73	72
8	87	79	74	71	86	79	74	71	78	74	71		77	73	70		76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68		74	70	67		73	70	67	66
10	81	73	68	65	80	73	68	65	72	68	65		71	68	65		71	67	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	797540
5°	731844
10°	537742
15°	313061
20°	170719
25°	121330
30°	109356
35°	86130
40°	19145
45°	5251
50°	1746
55°	1054
60°	691
65°	409
70°	252
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.0	25.9
10°-20°	683.3	34.6
20°-30°	427.3	21.6
30°-40°	317.0	16.0
40°-50°	29.5	1.5
50°-60°	4.7	0.2
60°-70°	1.6	0.1
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1622.7	82.1
0°-40°	1939.7	98.1
0°-60°	1974.0	99.9
0°-90°	1976.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6466	
5°	5911	512
15°	2452	683
25°	892	427
35°	572	317
45°	30	30
55°	5	5
65°	1	2
75°	1	1
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6465.9
1°	6423.3
2°	6350.6
3°	6245.7
4°	6101.6
5°	5910.7
6°	5673.7
7°	5387.7
8°	5054.2
9°	4682.2
10°	4293.4
11°	3895.5
12°	3510.2
13°	3134.7
14°	2778.1
15°	2451.6
16°	2154.4
17°	1895.0
18°	1662.1
19°	1464.9
20°	1300.6
21°	1170.5
22°	1066.4
23°	989.4
24°	932.8
25°	891.5
26°	860.8
27°	834.2
28°	809.7
29°	788.8
30°	767.8
32.5°	709.7
35°	572.0
37.5°	346.1
40°	118.9
42.5°	41.3
45°	30.1
47.5°	21.7
50°	9.1
52.5°	7.0
55°	4.9
57.5°	3.5
60°	2.8
62.5°	2.1
65°	1.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.4
70°	0.7
72.5°	0.7
75°	0.7
77.5°	0.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)