

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: P220721

Luminaire Tested: **9004-W1-[RW, RI]-LED4080-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220721
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-W1-[RW, RI]-LED4080-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.7 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

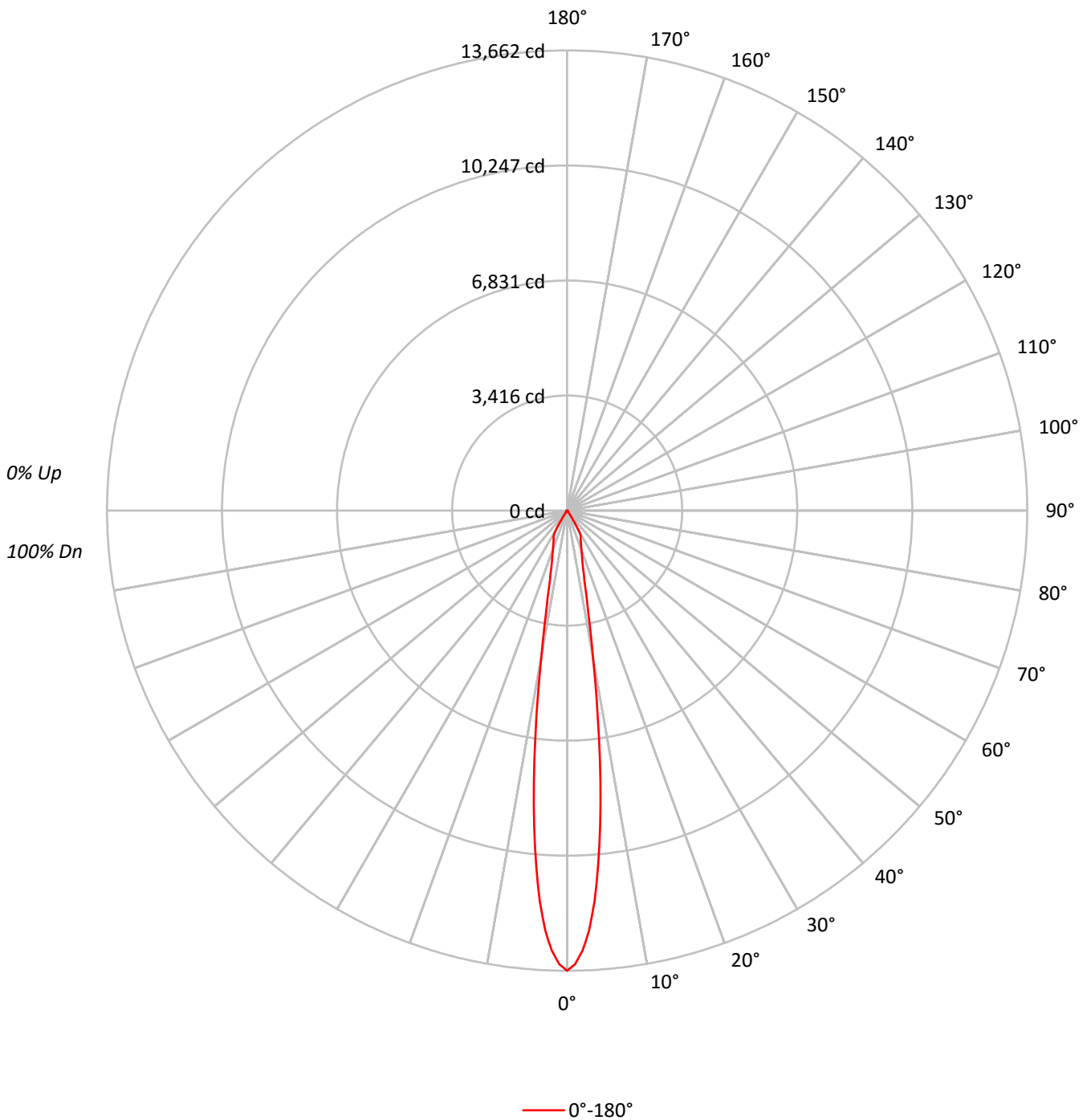
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87
4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84
5	99	93	88	85	98	92	88	84	90	86	84	89	85	83	87	84	82	81
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78
7	93	86	82	78	92	86	81	78	84	81	78	83	80	77	82	79	77	76
8	90	83	79	76	89	83	79	76	82	78	75	81	78	75	80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72
10	86	78	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1685160
5°	1309511
10°	554913
15°	237248
20°	162003
25°	129101
30°	96523
35°	12784
40°	6843
45°	4989
50°	5335
55°	5806
60°	6463
65°	7442
70°	8619
75°	10294
80°	12075
85°	12029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.1	39.1
10°-20°	571.9	28.1
20°-30°	441.3	21.6
30°-40°	122.3	6.0
40°-50°	23.7	1.2
50°-60°	24.2	1.2
60°-70°	25.2	1.2
70°-80°	22.5	1.1
80°-90°	9.5	0.5
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°	1811.3	88.8
0°-40°	1933.6	94.8
0°-60°	1981.5	97.2
0°-90°	2038.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13662	
5°	10576	798
15°	1858	572
25°	949	441
35°	85	122
45°	29	24
55°	27	24
65°	26	25
75°	22	23
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13662.1
1°	13470.7
2°	13074.0
3°	12471.1
4°	11632.9
5°	10576.2
6°	9382.9
7°	8123.2
8°	6759.3
9°	5522.7
10°	4430.5
11°	3569.9
12°	2916.9
13°	2444.5
14°	2110.3
15°	1857.9
16°	1670.3
17°	1529.9
18°	1419.5
19°	1323.0
20°	1234.2
22.5°	1069.0
25°	948.6
26°	917.8
27°	891.5
28°	859.9
29°	791.2
30°	677.7
32.5°	325.7
35°	84.9
37.5°	54.8
40°	42.5
42.5°	31.6
45°	28.6
47.5°	27.8
50°	27.8
52.5°	27.0
55°	27.0
57.5°	27.0
60°	26.2
62.5°	26.2
65°	25.5
67.5°	24.7
70°	23.9
72.5°	23.2



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CANDELA DISTRIBUTION (continued):

	0°
75°	21.6
77.5°	20.1
80°	17.0
82.5°	13.9
85°	8.5
87.5°	3.9
90°	0.0

(END OF REPORT)