

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: P29487

Luminaire Tested: **9004-W1-[RW, RI]-LED4080-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 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-L3-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: 2641.3 lumens
Efficiency: N/A
Efficacy: 92.4 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

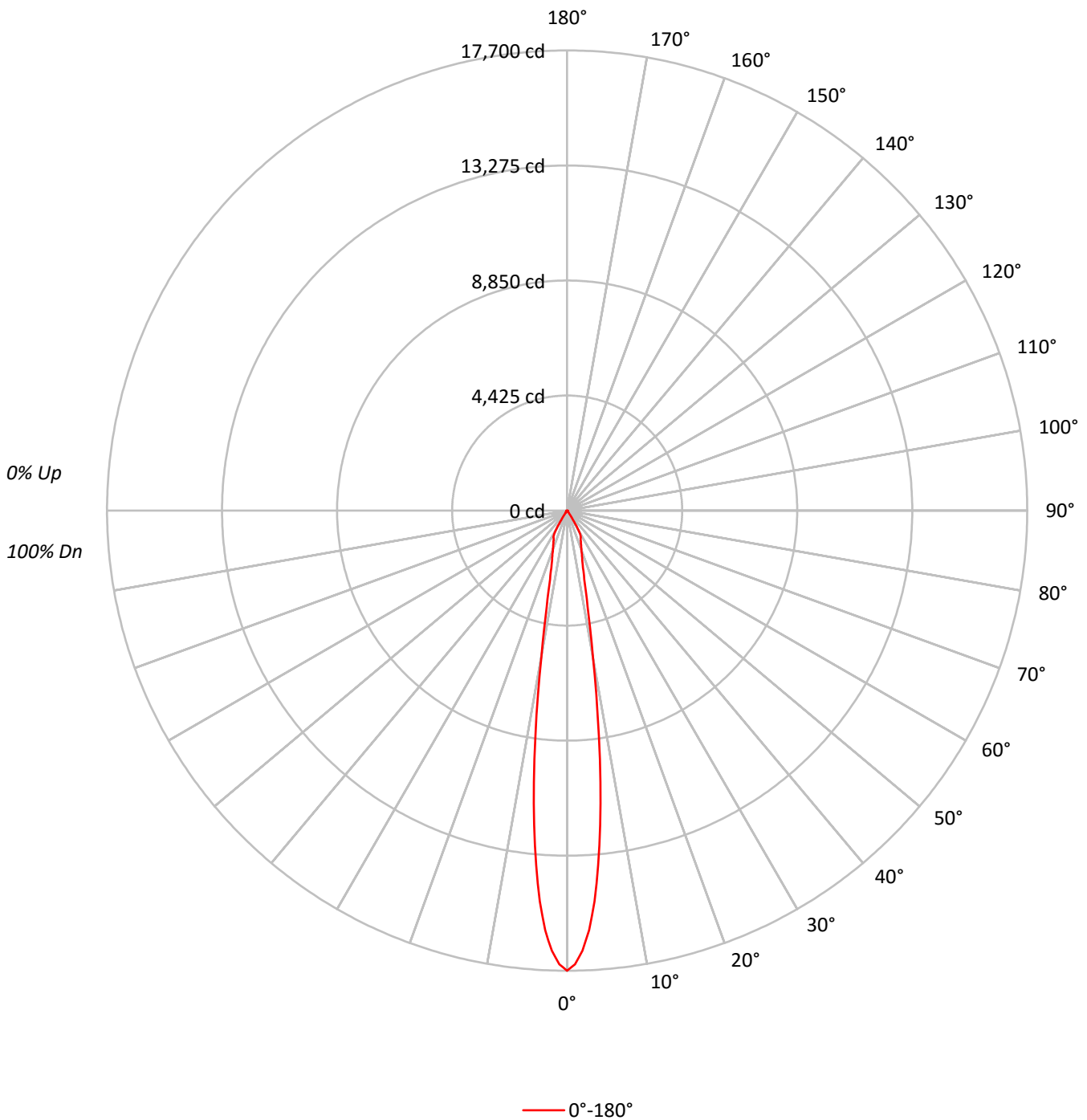
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	103	102	101	100	100	99	98	97	97	95	95	95	95
2	110	106	103	100	108	104	101	99	101	99	97	97	98	96	94	94	96	94	93	93	91	91	91	91
3	106	101	97	94	104	100	96	93	97	94	91	91	95	92	90	90	93	90	89	89	87	87	87	87
4	102	96	92	89	101	95	91	88	93	90	87	87	92	89	86	86	90	87	85	85	84	84	84	84
5	99	93	88	85	98	92	88	84	90	86	84	84	89	85	83	83	87	84	82	82	81	81	81	81
6	96	89	85	81	95	88	84	81	87	83	81	81	86	83	80	80	85	82	80	80	78	78	78	78
7	93	86	82	78	92	86	81	78	84	81	78	78	83	80	77	77	82	79	77	77	76	76	76	76
8	90	83	79	76	89	83	79	76	82	78	75	75	81	78	75	75	80	77	75	75	74	74	74	74
9	88	81	76	73	87	80	76	73	80	76	73	73	79	75	73	73	78	75	73	73	72	72	72	72
10	86	78	74	71	85	78	74	71	77	74	71	71	77	73	71	71	76	73	71	71	70	70	70	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2183218
5°	1696538
10°	718926
15°	307366
20°	209887
25°	167263
30°	125051
35°	16563
40°	8856
45°	6454
50°	6908
55°	7527
60°	8388
65°	9631
70°	11180
75°	13344
80°	15627
85°	15568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.0	39.1
10°-20°	741.0	28.1
20°-30°	571.8	21.6
30°-40°	158.4	6.0
40°-50°	30.7	1.2
50°-60°	31.4	1.2
60°-70°	32.6	1.2
70°-80°	29.2	1.1
80°-90°	12.2	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°	2346.7	88.8
0°-40°	2505.1	94.8
0°-60°	2567.2	97.2
0°-90°	2641.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17700	
5°	13702	###
15°	2407	741
25°	1229	572
35°	110	158
45°	37	31
55°	35	31
65°	33	33
75°	28	29
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	17700
1°	17452
2°	16938
3°	16157
4°	15071
5°	13702
6°	12156
7°	10524
8°	8757
9°	7155
10°	5740
11°	4625
12°	3779
13°	3167
14°	2734
15°	2407
16°	2164
17°	1982
18°	1839
19°	1714
20°	1599
22.5°	1385
25°	1229
26°	1189
27°	1155
28°	1114
29°	1025
30°	878
32.5°	422
35°	110
37.5°	71
40°	55
42.5°	41
45°	37
47.5°	36
50°	36
52.5°	35
55°	35
57.5°	35
60°	34
62.5°	34
65°	33
67.5°	32
70°	31
72.5°	30



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CANDELA DISTRIBUTION (continued):

	0°
75°	28
77.5°	26
80°	22
82.5°	18
85°	11
87.5°	5
90°	0

(END OF REPORT)