

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: P221879

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED4080-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4963.9 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

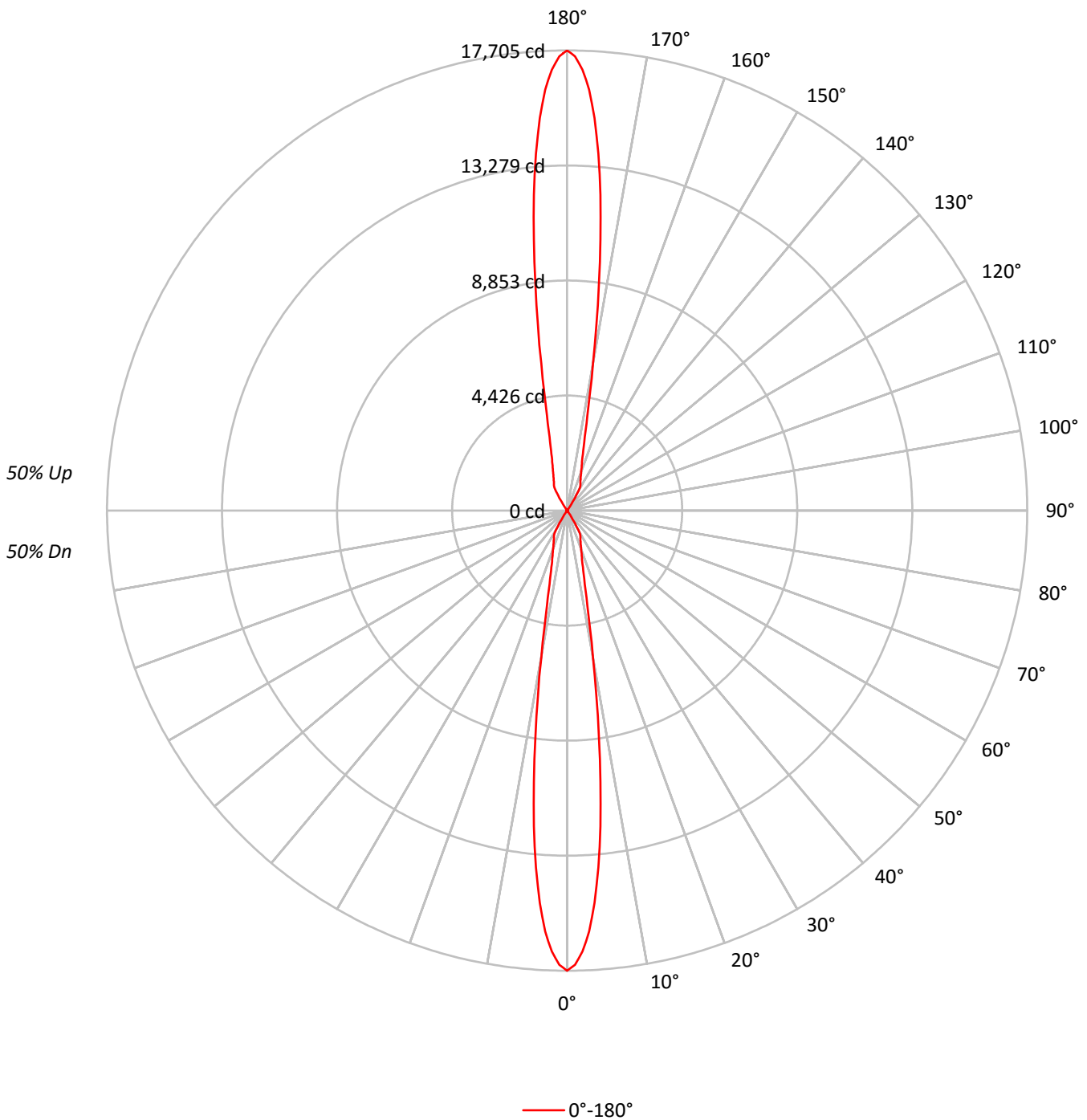
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	101	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2183834
5°	1706195
10°	718676
15°	304557
20°	206212
25°	163725
30°	121206
35°	10992
40°	4025
45°	1221
50°	959
55°	1075
60°	740
65°	584
70°	361
75°	477
80°	710
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.3	20.9
10°-20°	733.0	14.8
20°-30°	559.7	11.3
30°-40°	137.2	2.8
40°-50°	7.4	0.1
50°-60°	4.0	0.1
60°-70°	2.0	0.0
70°-80°	1.1	0.0
80°-90°	0.4	0.0
90°-100°	0.7	0.0
100°-110°	1.1	0.0
110°-120°	2.0	0.0
120°-130°	4.0	0.1
130°-140°	7.4	0.1
140°-150°	137.2	2.8
150°-160°	559.7	11.3
160°-170°	733.0	14.8
170°-180°	1037.3	20.9
0°-30°	2329.9	46.9
0°-40°	2467.1	49.7
0°-60°	2478.5	49.9
0°-90°	2482.0	50.0
90°-120°	3.7	0.1
90°-150°	152.3	3.1
90°-180°	2482.0	50.0
0°-180°	4963.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17705	
5°	13780	###
15°	2385	733
25°	1203	560
35°	73	137
45°	7	7
55°	5	4
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	5	4
135°	7	7
145°	73	137
155°	1203	560
165°	2385	733
175°	13780	###
180°	17705	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17705
1°	17478
2°	16978
3°	16211
4°	15137
5°	13780
6°	12220
7°	10506
8°	8780
9°	7200
10°	5738
11°	4580
12°	3732
13°	3132
14°	2705
15°	2385
16°	2139
17°	1960
18°	1818
19°	1685
20°	1571
22.5°	1355
25°	1203
26°	1162
27°	1128
28°	1094
29°	1004
30°	851
32.5°	383
35°	73
37.5°	40
40°	25
42.5°	11
45°	7
47.5°	6
50°	5
52.5°	5
55°	5
57.5°	4
60°	3
62.5°	3
65°	2
67.5°	1
70°	1
72.5°	1



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CANDELA DISTRIBUTION (continued):

	0°
75°	1
77.5°	1
80°	1
82.5°	1
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	1
100°	1
102.5°	1
105°	1
107.5°	1
110°	1
112.5°	1
115°	2
117.5°	3
120°	3
122.5°	4
125°	5
127.5°	5
130°	5
132.5°	6
135°	7
137.5°	11
140°	25
142.5°	40
145°	73
147.5°	383
150°	851
151°	1004
152°	1094
153°	1128
154°	1162
155°	1203
157.5°	1355
160°	1571
161°	1685
162°	1818
163°	1960
164°	2139
165°	2385
166°	2705
167°	3132



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CANDELA DISTRIBUTION (continued):

	0°
168°	3732
169°	4580
170°	5738
171°	7200
172°	8780
173°	10506
174°	12220
175°	13780
176°	15137
177°	16211
178°	16978
179°	17478
180°	17705

(END OF REPORT)