

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: P221927

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221927
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]-LED5080-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5156.6 lumens
Efficiency: N/A
Efficacy: 90.5 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

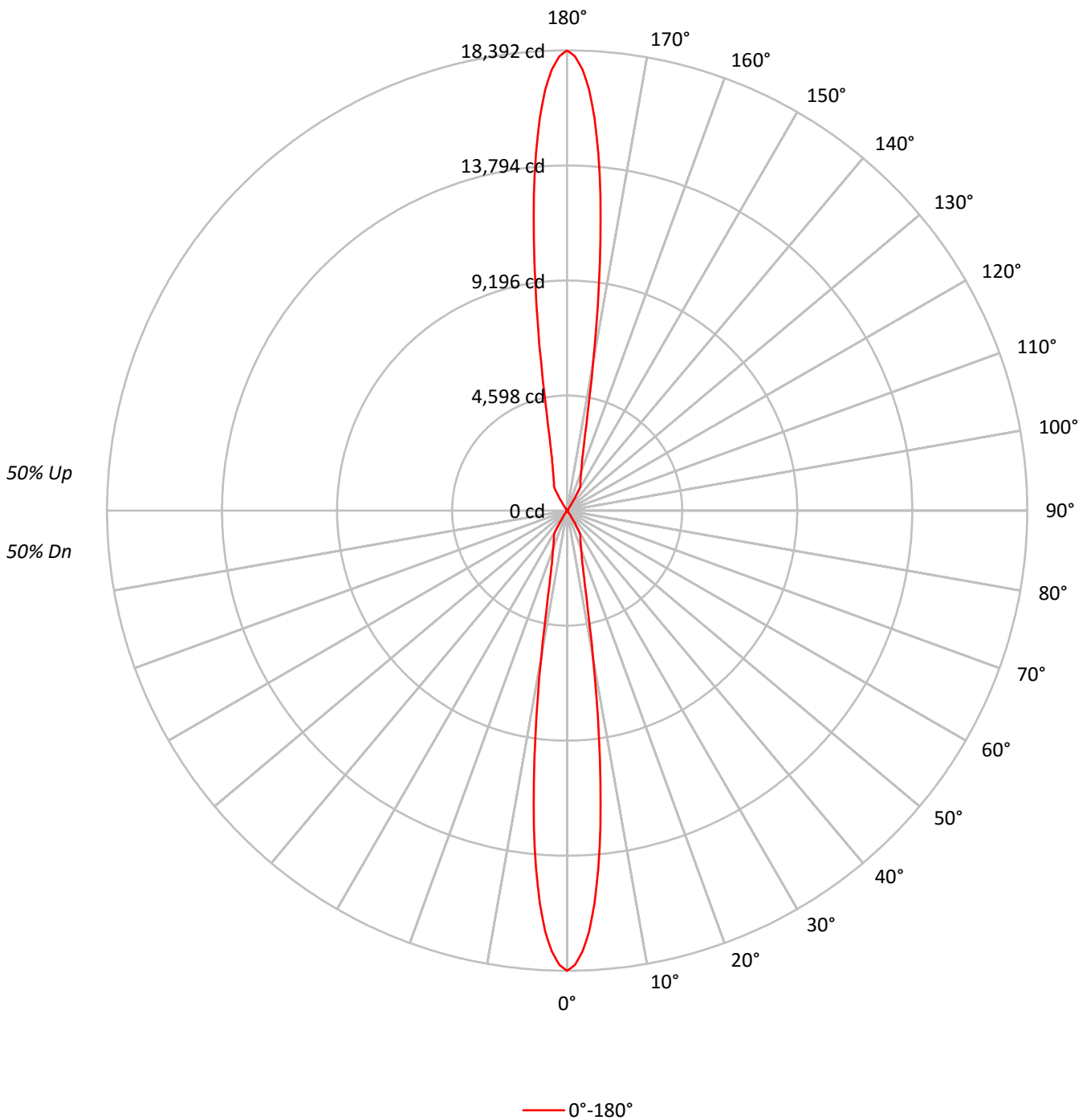
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221927

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-BK-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221927

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-BK-L3-UNV

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°	2268634
5°	1772450
10°	746581
15°	316382
20°	214219
25°	170080
30°	125906
35°	11414
40°	4186
45°	1273
50°	998
55°	1118
60°	765
65°	613
70°	361
75°	477
80°	710
85°	0



TEST NUMBER: P221927

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-BK-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.6	20.9
10°-20°	761.4	14.8
20°-30°	581.4	11.3
30°-40°	142.5	2.8
40°-50°	7.7	0.1
50°-60°	4.2	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°	4.2	0.1
130°-140°	7.7	0.1
140°-150°	142.5	2.8
150°-160°	581.4	11.3
160°-170°	761.4	14.8
170°-180°	1077.6	20.9
0°-30°	2420.4	46.9
0°-40°	2562.9	49.7
0°-60°	2574.8	49.9
0°-90°	2578.3	50.0
90°-120°	3.8	0.1
90°-150°	158.2	3.1
90°-180°	2579.0	50.0
0°-180°	5156.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18392	
5°	14315	###
15°	2478	761
25°	1250	581
35°	76	143
45°	7	8
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	8
145°	76	143
155°	1250	581
165°	2478	761
175°	14315	###
180°	18392	



TEST NUMBER: P221927

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-BK-L3-UNV

CANDELA DISTRIBUTION (FULL):

	0°
0°	18392.5
1°	18156.7
2°	17637.3
3°	16840.5
4°	15724.8
5°	14315.1
6°	12694.5
7°	10914.0
8°	9120.9
9°	7479.6
10°	5960.8
11°	4757.8
12°	3876.9
13°	3253.6
14°	2810.0
15°	2477.6
16°	2222.1
17°	2036.1
18°	1888.6
19°	1750.4
20°	1632.0
22.5°	1407.6
25°	1249.7
26°	1207.1
27°	1171.8
28°	1136.5
29°	1043.0
30°	884.0
32.5°	397.9
35°	75.8
37.5°	41.6
40°	26.0
42.5°	11.4
45°	7.3
47.5°	6.2
50°	5.2
52.5°	5.2
55°	5.2
57.5°	4.2
60°	3.1
62.5°	3.1
65°	2.1
67.5°	1.0
70°	1.0
72.5°	1.0



TEST NUMBER: P221927

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0
112.5°	1.0
115°	2.1
117.5°	3.1
120°	3.1
122.5°	4.2
125°	5.2
127.5°	5.2
130°	5.2
132.5°	6.2
135°	7.3
137.5°	11.4
140°	26.0
142.5°	41.6
145°	75.8
147.5°	397.9
150°	884.0
151°	1043.0
152°	1136.5
153°	1171.8
154°	1207.1
155°	1249.7
157.5°	1407.6
160°	1632.0
161°	1750.4
162°	1888.6
163°	2036.1
164°	2222.1
165°	2477.6
166°	2810.0
167°	3253.6



TEST NUMBER: P221927

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	3876.9
169°	4757.8
170°	5960.8
171°	7479.6
172°	9120.9
173°	10914.0
174°	12694.5
175°	14315.1
176°	15724.8
177°	16840.5
178°	17637.3
179°	18156.7
180°	18392.5

(END OF REPORT)