

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: P222170

Luminaire Tested: **9004-W2-FL-LED5080-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED5080-S-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

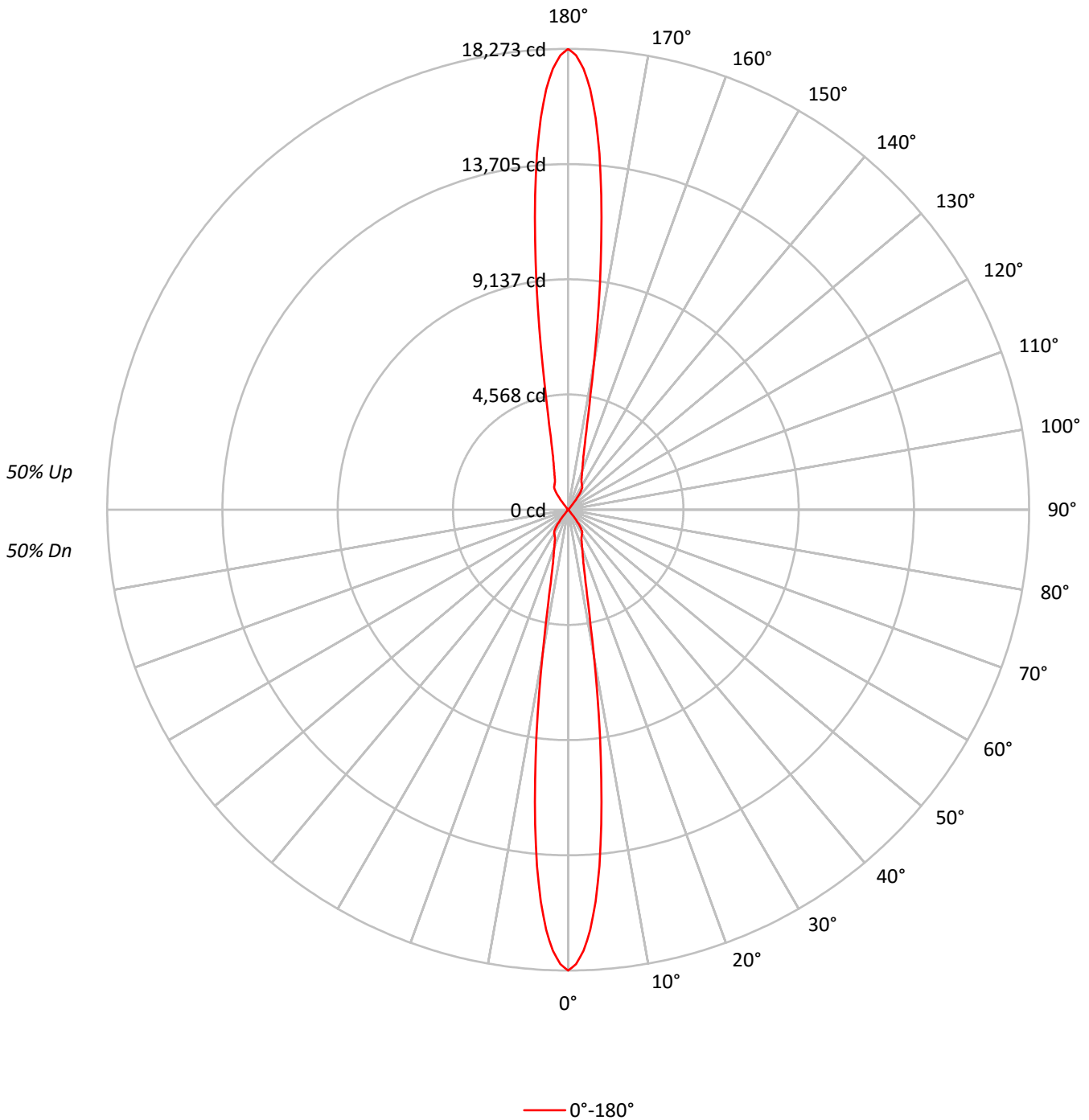
Lumens per Lamp: N/A
Luminaire Lumens: 5820.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.2
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



TEST NUMBER: P222170
CATALOG NUMBER: 9004-W2-FL-LED5080-S-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P222170

CATALOG NUMBER: 9004-W2-FL-LED5080-S-WT-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	97	95	92	93	90	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2253895
5°	1754447
10°	730712
15°	308950
20°	212040
25°	169236
30°	156385
35°	127961
40°	26938
45°	6158
50°	2188
55°	1785
60°	1036
65°	613
70°	361
75°	477
80°	0
85°	0



TEST NUMBER: P222170

CATALOG NUMBER: 9004-W2-FL-LED5080-S-WT-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1064.9	18.3
10°-20°	746.3	12.8
20°-30°	588.2	10.1
30°-40°	463.1	8.0
40°-50°	37.4	0.6
50°-60°	7.3	0.1
60°-70°	1.9	0.0
70°-80°	0.9	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.9	0.0
110°-120°	1.9	0.0
120°-130°	7.3	0.1
130°-140°	37.4	0.6
140°-150°	463.1	8.0
150°-160°	588.2	10.1
160°-170°	746.3	12.8
170°-180°	1064.9	18.3
0°-30°	2399.4	41.2
0°-40°	2862.5	49.2
0°-60°	2907.2	50.0
0°-90°	2910.0	50.0
90°-120°	2.8	0.0
90°-150°	510.6	8.8
90°-180°	2910.0	50.0
0°-180°	5820.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18273	
5°	14170	###
15°	2419	746
25°	1244	588
35°	850	463
45°	35	37
55°	8	7
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	8	7
135°	35	37
145°	850	463
155°	1244	588
165°	2419	746
175°	14170	###
180°	18273	

TEST NUMBER: P222170

CATALOG NUMBER: 9004-W2-FL-LED5080-S-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	18273.0
1°	18021.6
2°	17499.1
3°	16688.8
4°	15580.4
5°	14169.7
6°	12540.8
7°	10781.0
8°	9054.5
9°	7316.5
10°	5834.1
11°	4650.8
12°	3792.8
13°	3185.1
14°	2744.6
15°	2419.4
16°	2175.3
17°	1996.6
18°	1860.5
19°	1730.7
20°	1615.4
21°	1519.8
22°	1434.6
23°	1359.8
24°	1294.4
25°	1243.5
26°	1205.0
27°	1176.0
28°	1147.9
29°	1123.0
30°	1098.0
32.5°	1035.7
35°	849.8
37.5°	506.9
40°	167.3
42.5°	49.9
45°	35.3
47.5°	24.9
50°	11.4
52.5°	10.4
55°	8.3
57.5°	6.2
60°	4.2
62.5°	2.1
65°	2.1



TEST NUMBER: P222170

CATALOG NUMBER: 9004-W2-FL-LED5080-S-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.0
70°	1.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0
112.5°	1.0
115°	2.1
117.5°	2.1
120°	4.2
122.5°	6.2
125°	8.3
127.5°	10.4
130°	11.4
132.5°	24.9
135°	35.3
137.5°	49.9
140°	167.3
142.5°	506.9
145°	849.8
147.5°	1035.7
150°	1098.0
151°	1123.0
152°	1147.9
153°	1176.0
154°	1205.0
155°	1243.5
156°	1294.4
157°	1359.8
158°	1434.6
159°	1519.8
160°	1615.4
161°	1730.7



TEST NUMBER: P222170

CATALOG NUMBER: 9004-W2-FL-LED5080-S-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	1860.5
163°	1996.6
164°	2175.3
165°	2419.4
166°	2744.6
167°	3185.1
168°	3792.8
169°	4650.8
170°	5834.1
171°	7316.5
172°	9054.5
173°	10781.0
174°	12540.8
175°	14169.7
176°	15580.4
177°	16688.8
178°	17499.1
179°	18021.6
180°	18273.0

(END OF REPORT)