

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: P221353

Luminaire Tested: **9002-W2-FL-LED4080-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED4080-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

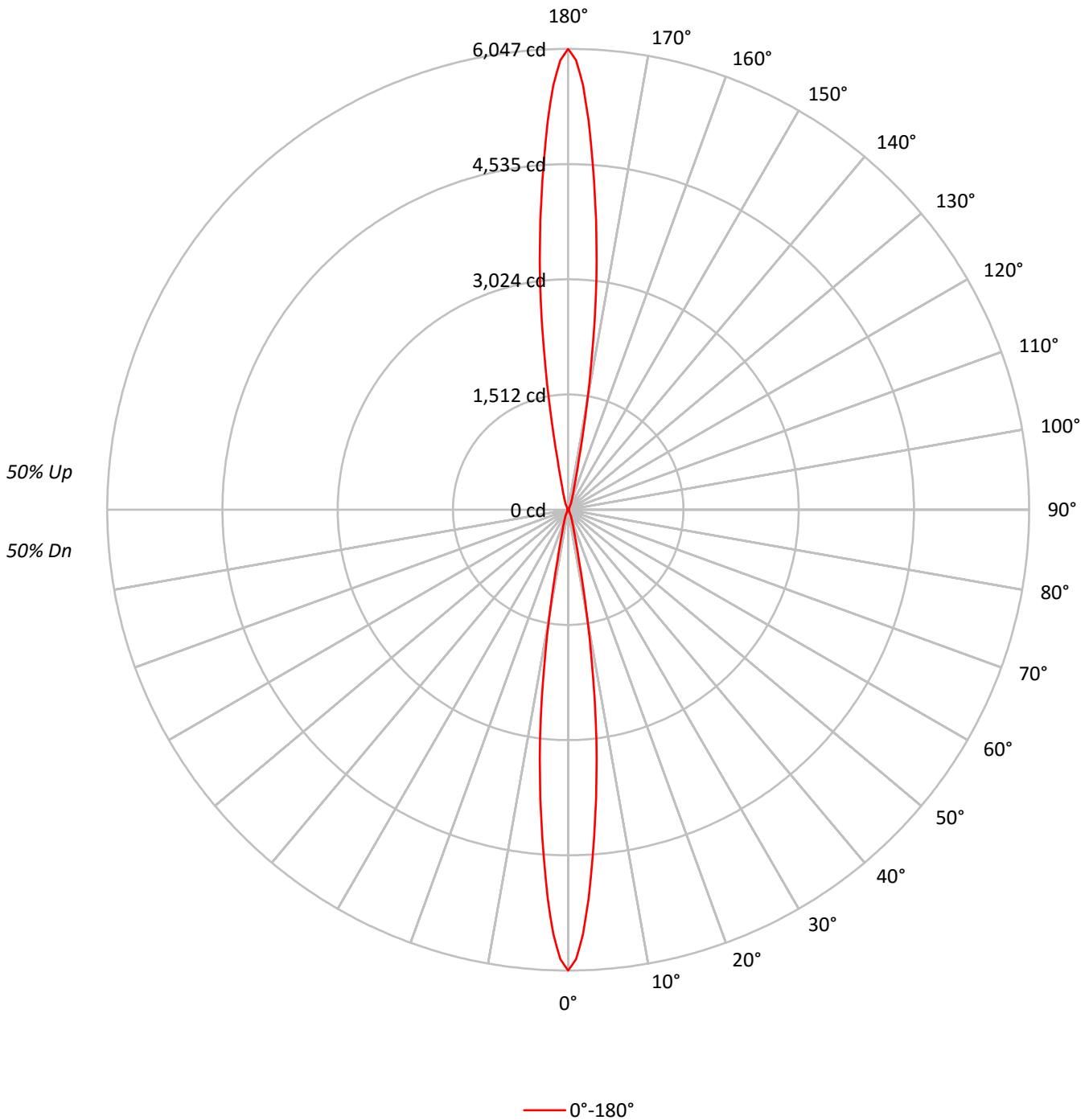
Lumens per Lamp: N/A
Luminaire Lumens: 916.8 lumens
Efficiency: N/A
Efficacy: 45.8 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20
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	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	96	93	94	91	89	87	78	77	75	66	65	64	55	55	54	49				
2	96	91	87	83	89	85	82	79	74	71	70	63	62	61	54	53	52	48				
3	91	85	80	76	85	80	76	72	70	67	65	61	59	58	53	52	51	47				
4	87	80	74	70	81	75	71	67	67	64	61	59	57	55	52	51	50	47				
5	83	75	70	66	78	71	67	63	64	61	58	57	55	53	51	49	49	46				
6	79	71	66	62	75	68	63	60	61	58	56	55	53	52	50	49	48	45				
7	76	68	63	59	72	65	61	57	59	56	54	54	52	50	49	48	47	45				
8	73	65	60	57	69	63	58	55	57	54	52	53	50	49	48	47	46	44				
9	71	63	58	55	67	60	56	53	56	53	50	52	49	48	47	46	45	44				
10	69	61	56	53	65	58	54	51	54	51	49	50	48	47	47	45	44	43				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2983466
5°	2012754
10°	716417
15°	149149
20°	71931
25°	34841
30°	11964
35°	6023
40°	4508
45°	2791
50°	2303
55°	1720
60°	1974
65°	1167
70°	1443
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.1	33.2
10°-20°	109.0	11.9
20°-30°	30.7	3.3
30°-40°	7.1	0.8
40°-50°	3.6	0.4
50°-60°	2.1	0.2
60°-70°	1.4	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.1
110°-120°	1.4	0.1
120°-130°	2.1	0.2
130°-140°	3.6	0.4
140°-150°	7.1	0.8
150°-160°	30.7	3.3
160°-170°	109.0	11.9
170°-180°	304.1	33.2
0°-30°	443.8	48.4
0°-40°	450.9	49.2
0°-60°	456.6	49.8
0°-90°	458.4	50.0
90°-120°	2.0	0.2
90°-150°	14.8	1.6
90°-180°	459.0	50.1
0°-180°	916.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6047	
5°	4064	304
15°	292	109
25°	64	31
35°	10	7
45°	4	4
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	4
145°	10	7
155°	64	31
165°	292	109
175°	4064	304
180°	6047	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6047
1°	5898
2°	5576
3°	5108
4°	4584
5°	4064
6°	3551
7°	3031
8°	2488
9°	1940
10°	1430
11°	998
12°	678
13°	481
14°	366
15°	292
17.5°	189
20°	137
22.5°	99
25°	64
27.5°	37
30°	21
32.5°	14
35°	10
37.5°	8
40°	7
42.5°	6
45°	4
47.5°	4
50°	3
52.5°	3
55°	2
57.5°	2
60°	2
62.5°	2
65°	1
67.5°	1
70°	1
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	1
110°	1
112.5°	1
115°	1
117.5°	2
120°	2
122.5°	2
125°	2
127.5°	3
130°	3
132.5°	4
135°	4
137.5°	6
140°	7
142.5°	8
145°	10
147.5°	14
150°	21
152.5°	37
155°	64
157.5°	99
160°	137
162.5°	189
165°	292
166°	366
167°	481
168°	678
169°	998
170°	1430
171°	1940
172°	2488
173°	3031
174°	3551
175°	4064
176°	4584
177°	5108
178°	5576
179°	5898



TEST NUMBER: P221353
CATALOG NUMBER: 9002-W2-FL-LED4080-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{6047}$

(END OF REPORT)