

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: P221735

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221735
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]-LED2790-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

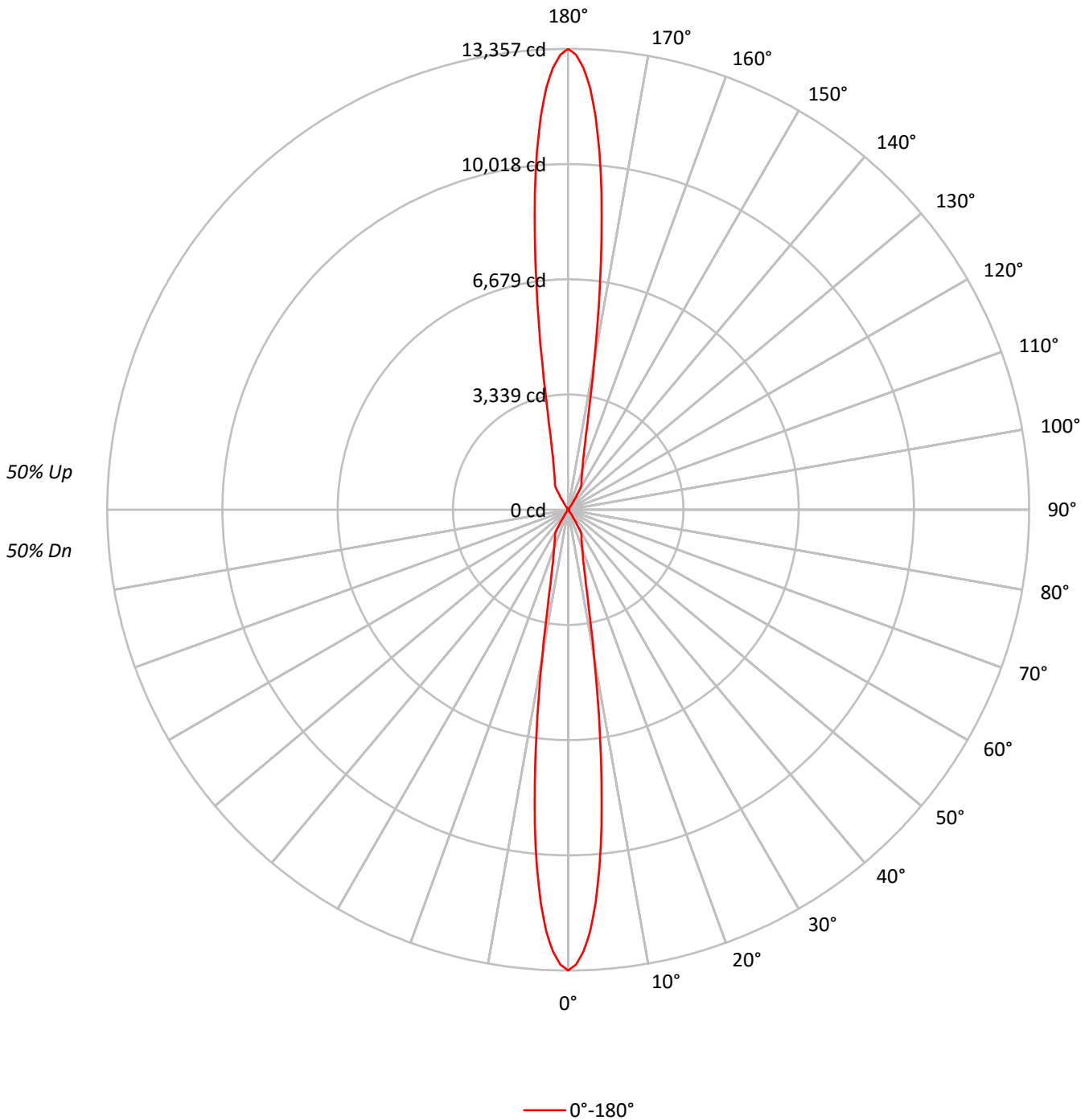
Lumens per Lamp: N/A
Luminaire Lumens: 3745.2 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57
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	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°	1647565
5°	1287212
10°	542200
15°	229765
20°	155571
25°	123521
30°	91438
35°	8297
40°	3043
45°	925
50°	729
55°	817
60°	567
65°	438
70°	289
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.6	20.9
10°-20°	553.0	14.8
20°-30°	422.2	11.3
30°-40°	103.5	2.8
40°-50°	5.6	0.1
50°-60°	3.0	0.1
60°-70°	1.5	0.0
70°-80°	0.8	0.0
80°-90°	0.3	0.0
90°-100°	0.5	0.0
100°-110°	0.8	0.0
110°-120°	1.5	0.0
120°-130°	3.0	0.1
130°-140°	5.6	0.1
140°-150°	103.5	2.8
150°-160°	422.2	11.3
160°-170°	553.0	14.8
170°-180°	782.6	20.9
0°-30°	1757.8	46.9
0°-40°	1861.3	49.7
0°-60°	1869.9	49.9
0°-90°	1872.6	50.0
90°-120°	2.9	0.1
90°-150°	115.0	3.1
90°-180°	1873.0	50.0
0°-180°	3745.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13357	
5°	10396	783
15°	1799	553
25°	908	422
35°	55	104
45°	5	6
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	5	6
145°	55	104
155°	908	422
165°	1799	553
175°	10396	783
180°	13357	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13357.3
1°	13186.0
2°	12808.8
3°	12230.2
4°	11419.9
5°	10396.1
6°	9219.2
7°	7926.1
8°	6624.0
9°	5431.9
10°	4329.0
11°	3455.3
12°	2815.6
13°	2362.9
14°	2040.8
15°	1799.3
16°	1613.7
17°	1478.7
18°	1371.6
19°	1271.2
20°	1185.2
22.5°	1022.3
25°	907.6
26°	876.7
27°	851.0
28°	825.4
29°	757.5
30°	642.0
32.5°	288.9
35°	55.1
37.5°	30.2
40°	18.9
42.5°	8.3
45°	5.3
47.5°	4.5
50°	3.8
52.5°	3.8
55°	3.8
57.5°	3.0
60°	2.3
62.5°	2.3
65°	1.5
67.5°	0.8
70°	0.8
72.5°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.5
117.5°	2.3
120°	2.3
122.5°	3.0
125°	3.8
127.5°	3.8
130°	3.8
132.5°	4.5
135°	5.3
137.5°	8.3
140°	18.9
142.5°	30.2
145°	55.1
147.5°	288.9
150°	642.0
151°	757.5
152°	825.4
153°	851.0
154°	876.7
155°	907.6
157.5°	1022.3
160°	1185.2
161°	1271.2
162°	1371.6
163°	1478.7
164°	1613.7
165°	1799.3
166°	2040.8
167°	2362.9



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CANDELA DISTRIBUTION (continued):

	0°
168°	2815.6
169°	3455.3
170°	4329.0
171°	5431.9
172°	6624.0
173°	7926.1
174°	9219.2
175°	10396.1
176°	11419.9
177°	12230.2
178°	12808.8
179°	13186.0
180°	13357.3

(END OF REPORT)