

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: P221882

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
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-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5282.5 lumens
Efficiency: N/A
Efficacy: 92.4 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

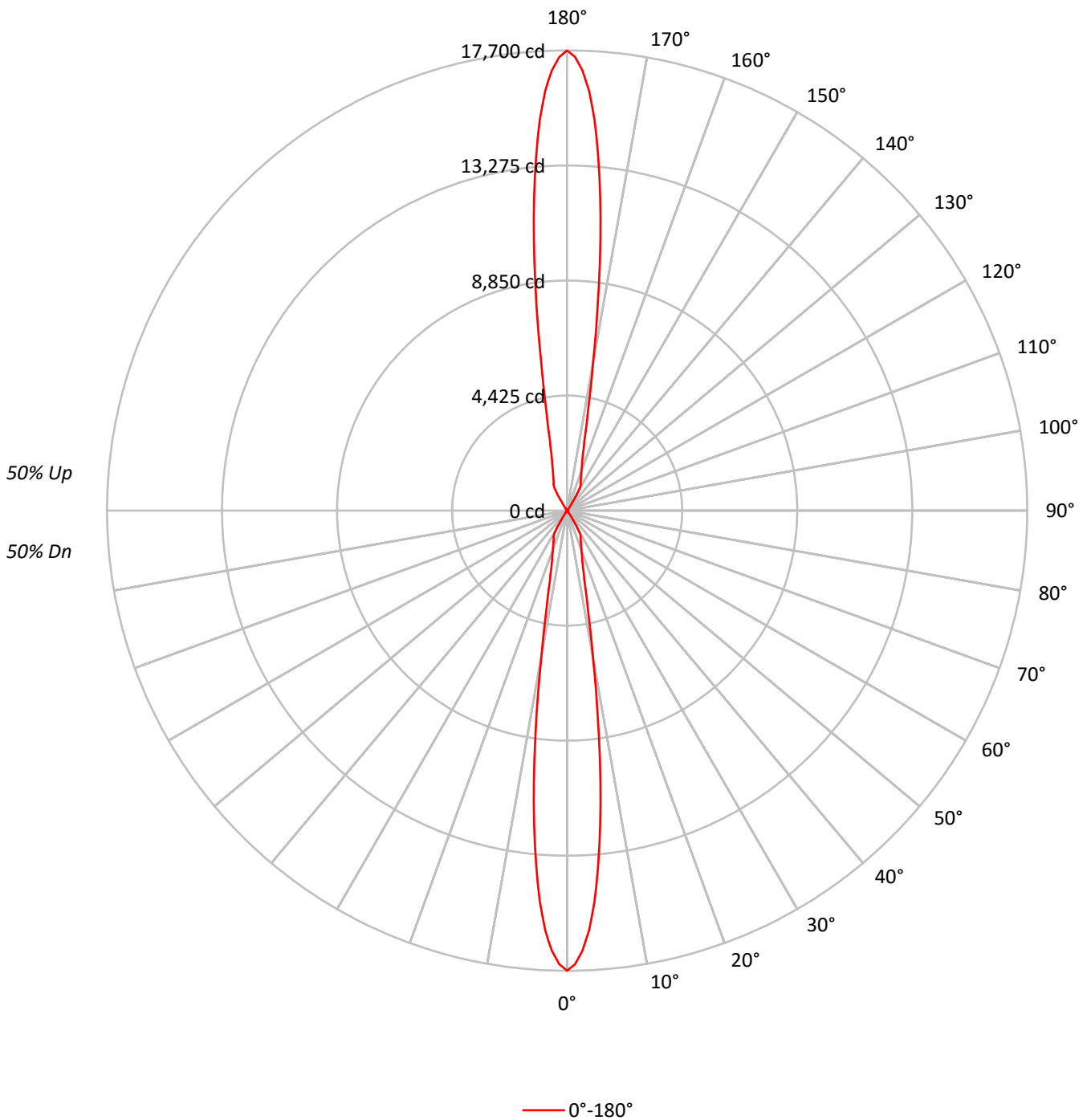
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221882

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221882

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2183218
5°	1696538
10°	718926
15°	307366
20°	209887
25°	167263
30°	125051
35°	16563
40°	8856
45°	6454
50°	6908
55°	7527
60°	8388
65°	9631
70°	11180
75°	13344
80°	15627
85°	15568



TEST NUMBER: P221882

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-WT-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.0	19.6
10°-20°	741.0	14.0
20°-30°	571.8	10.8
30°-40°	158.4	3.0
40°-50°	30.7	0.6
50°-60°	31.4	0.6
60°-70°	32.6	0.6
70°-80°	29.2	0.6
80°-90°	12.2	0.2
90°-100°	12.2	0.2
100°-110°	29.2	0.6
110°-120°	32.6	0.6
120°-130°	31.4	0.6
130°-140°	30.7	0.6
140°-150°	158.4	3.0
150°-160°	571.8	10.8
160°-170°	741.0	14.0
170°-180°	1034.0	19.6
0°-30°	2346.7	44.4
0°-40°	2505.1	47.4
0°-60°	2567.2	48.6
0°-90°	2641.3	50.0
90°-120°	74.0	1.4
90°-150°	294.6	5.6
90°-180°	2641.0	50.0
0°-180°	5282.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17700	
5°	13702	###
15°	2407	741
25°	1229	572
35°	110	158
45°	37	31
55°	35	31
65°	33	33
75°	28	29
85°	11	12
90°	0	1
95°	11	12
105°	28	29
115°	33	33
125°	35	31
135°	37	31
145°	110	158
155°	1229	572
165°	2407	741
175°	13702	###
180°	17700	



TEST NUMBER: P221882

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	17700
1°	17452
2°	16938
3°	16157
4°	15071
5°	13702
6°	12156
7°	10524
8°	8757
9°	7155
10°	5740
11°	4625
12°	3779
13°	3167
14°	2734
15°	2407
16°	2164
17°	1982
18°	1839
19°	1714
20°	1599
22.5°	1385
25°	1229
26°	1189
27°	1155
28°	1114
29°	1025
30°	878
32.5°	422
35°	110
37.5°	71
40°	55
42.5°	41
45°	37
47.5°	36
50°	36
52.5°	35
55°	35
57.5°	35
60°	34
62.5°	34
65°	33
67.5°	32
70°	31
72.5°	30



TEST NUMBER: P221882

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
75°	28
77.5°	26
80°	22
82.5°	18
85°	11
87.5°	5
90°	0
92.5°	5
95°	11
97.5°	18
100°	22
102.5°	26
105°	28
107.5°	30
110°	31
112.5°	32
115°	33
117.5°	34
120°	34
122.5°	35
125°	35
127.5°	35
130°	36
132.5°	36
135°	37
137.5°	41
140°	55
142.5°	71
145°	110
147.5°	422
150°	878
151°	1025
152°	1114
153°	1155
154°	1189
155°	1229
157.5°	1385
160°	1599
161°	1714
162°	1839
163°	1982
164°	2164
165°	2407
166°	2734
167°	3167



TEST NUMBER: P221882

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	3779
169°	4625
170°	5740
171°	7155
172°	8757
173°	10524
174°	12156
175°	13702
176°	15071
177°	16157
178°	16938
179°	17452
180°	17700

(END OF REPORT)