

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: RSA

Report Number: P22186-R2

Luminaire Tested: **CSWRN30SML11**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P22186-R2
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: CSWRN30SML11
Description: ***THIS IS A REVISION OF P22186 TO UPDATE CATALOG
NUMBER***COMBOLIGHT ONE 8W LED HEAD, 3 LED UNIT SPOT
DISTRIBUTION,3000K
Light Source: (3) 3000K SMT LEDS
XPG
Ballast/Driver: (1) MAGTECH HIGH PERFECTION ELECTRONIC DRIVER
LP1020-12-C700

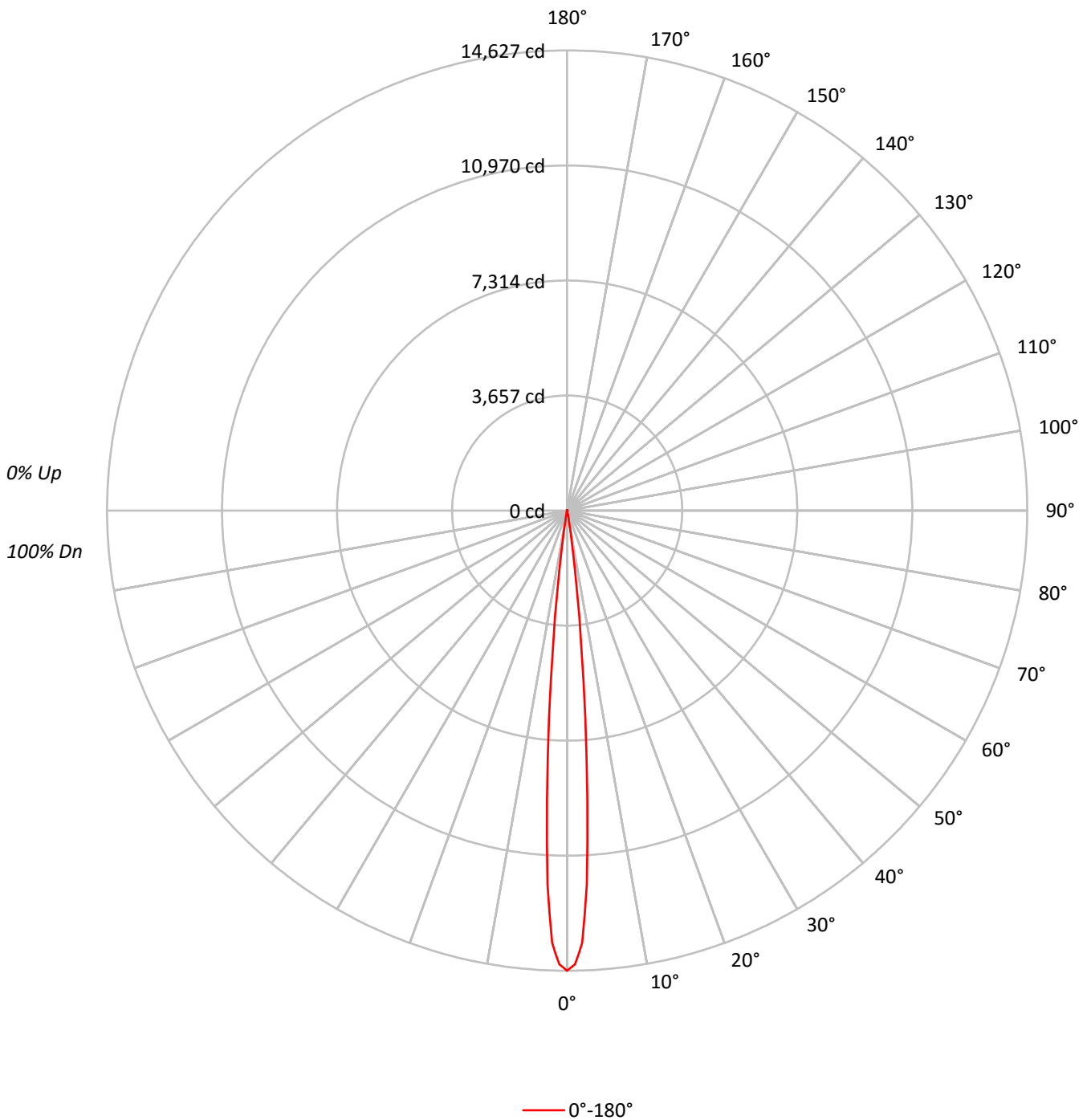
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 436.4 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 0.16 / 0.16 / 0.16
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): 0.06792
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
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							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	116	114	113	111	114	112	111	110	108	107	106	106	105	104	103	103	101	101	100	100	99	99	99	99
2	114	111	109	107	112	109	107	106	106	105	104	104	104	102	101	101	101	100	99	99	98	98	98	98
3	112	109	106	104	110	107	105	103	105	103	102	102	103	101	100	100	101	100	99	99	98	98	98	98
4	110	107	104	102	109	106	103	101	104	102	100	100	102	101	99	99	101	99	98	98	97	97	97	97
5	109	105	102	101	108	104	102	100	103	101	99	99	102	100	99	99	100	99	98	98	97	97	97	97
6	108	104	101	99	107	103	101	99	102	100	99	99	101	99	98	98	100	99	97	97	97	97	97	97
7	107	103	100	99	106	102	100	98	101	99	98	98	101	99	98	98	100	98	97	97	96	96	96	96
8	106	102	100	98	105	102	99	98	101	99	97	97	100	98	97	97	99	98	97	97	96	96	96	96
9	105	101	99	97	104	101	99	97	100	98	97	97	100	98	97	97	99	98	97	97	96	96	96	96
10	104	101	99	97	104	100	98	97	100	98	97	97	99	98	97	97	99	97	96	96	96	96	96	96

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	3207418
5°	1447718
10°	71252
15°	6356
20°	1867
25°	3871
30°	4304
35°	1071
40°	859
45°	0
50°	1023
55°	0
60°	0
65°	0
70°	1282
75°	847
80°	2526
85°	22644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	92.9
10°-20°	14.5	3.3
20°-30°	4.3	1.0
30°-40°	3.0	0.7
40°-50°	2.3	0.5
50°-60°	0.3	0.1
60°-70°	0.7	0.2
70°-80°	1.6	0.4
80°-90°	4.1	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	424.3	97.2
0°-40°	427.3	97.9
0°-60°	429.9	98.5
0°-90°	436.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14627	
5°	6577	406
15°	28	15
25°	16	4
35°	4	3
45°	0	2
55°	0	0
65°	0	1
75°	1	2
85°	9	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14627
1°	14421
2°	13745
3°	11905
4°	9184
5°	6577
6°	4292
7°	2519
8°	1321
9°	640
10°	320
11°	154
12°	99
13°	50
14°	43
15°	28
17.5°	20
20°	8
22.5°	4
25°	16
27.5°	4
30°	17
32.5°	5
35°	4
37.5°	1
40°	3
42.5°	7
45°	0
47.5°	2
50°	3
52.5°	0
55°	0
57.5°	0
60°	0
62.5°	2
65°	0
67.5°	0
70°	2
72.5°	2
75°	1
77.5°	1
80°	2
82.5°	1
85°	9
87.5°	4



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)