

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: P22187-R2

Luminaire Tested: **CSHRM30SML11**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P22187-R2
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: CSHRM30SML11
Description: ***THIS IS A REVISION OF P22187 TO UPDATE CATALOG
NUMBER***COMBOLIGHT ONE 8W LED HEAD, 3 LED UNIT NARROW
FLOOD DISTRIBUTION, 3000K
Light Source: (3) 3000K SMT LEDS
XPG
Ballast/Driver: (1) MAGTECH HIGH PERFECTION ELECTRONIC DRIVER
LP1020-12-C700

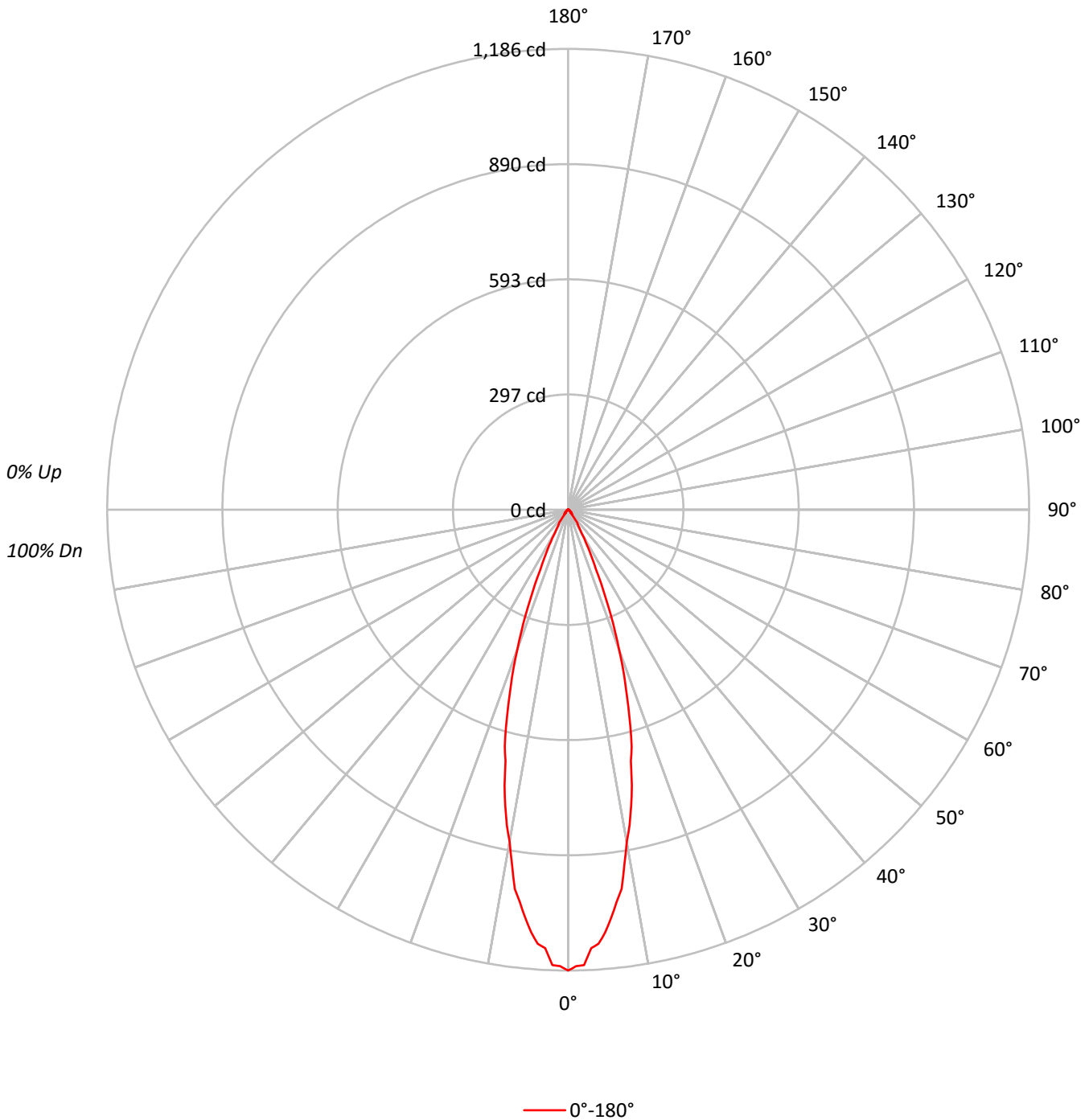
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 384.2 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.53
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 8.3
Input Voltage (V): NR
Input Current (Ain): 0.07098
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	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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91			91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88			88
4	102	96	92	89	101	95	91	88	93	90	87	91	89	86	90	87	85	84			84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81
6	95	88	84	80	94	88	83	80	86	83	80	85	82	79	84	81	79	78			78
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75			75
8	89	82	77	74	88	81	77	74	80	76	74	79	76	73	79	75	73	72			72
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69			69
10	84	76	72	69	83	76	72	69	75	71	68	74	71	68	74	70	68	67			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260067
5°	240369
10°	193272
15°	143247
20°	89374
25°	40889
30°	16965
35°	10708
40°	2576
45°	0
50°	3753
55°	2294
60°	877
65°	0
70°	0
75°	0
80°	0
85°	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	25.3
10°-20°	170.7	44.4
20°-30°	85.4	22.2
30°-40°	20.2	5.3
40°-50°	5.3	1.4
50°-60°	3.2	0.8
60°-70°	0.5	0.1
70°-80°	1.3	0.3
80°-90°	0.3	0.1
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°	353.3	92.0
0°-40°	373.6	97.2
0°-60°	382.1	99.5
0°-90°	384.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	384.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1186	
5°	1092	97
15°	631	171
25°	169	85
35°	40	20
45°	0	5
55°	6	3
65°	0	0
75°	0	1
85°	1	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1186
1°	1175
2°	1173
3°	1130
4°	1120
5°	1092
6°	1057
7°	1018
8°	986
9°	923
10°	868
11°	827
12°	780
13°	728
14°	666
15°	631
17.5°	504
20°	383
22.5°	269
25°	169
27.5°	112
30°	67
32.5°	47
35°	40
37.5°	9
40°	9
42.5°	15
45°	0
47.5°	3
50°	11
52.5°	1
55°	6
57.5°	1
60°	2
62.5°	0
65°	0
67.5°	1
70°	0
72.5°	4
75°	0
77.5°	1
80°	0
82.5°	0
85°	1
87.5°	0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)