

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: P22185-R2

Luminaire Tested: **CSHRW40MED11**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P22185-R2
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: CSHRW40MED11
Description: ***THIS IS A REVISION OF P22185 TO UPDATE CATALOG
NUMBER***COMBOLIGHT ONE 18W LED HEAD, 7 LED UNIT FLOOD
DISTRIBUTION, 4000K
Light Source: (7) 4000K SMT LEDS
XPG
Ballast/Driver: (1) MAGTECH HIGH PERFECTION ELECTRONIC DRIVER
LP1020-24-C700

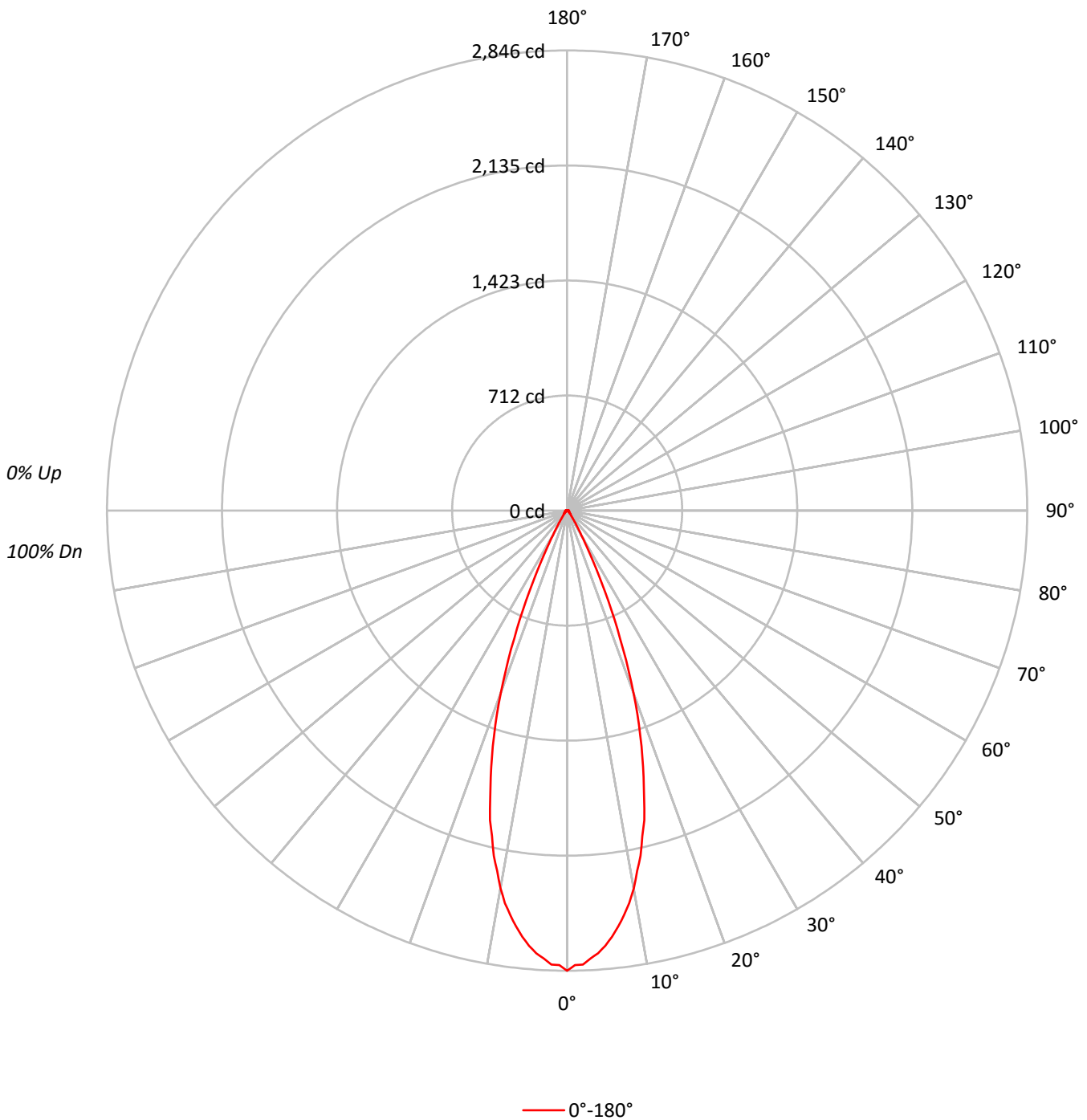
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1113.9 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.58
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): 0.14458
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90
3	105	100	95	92	103	98	94	91	96	93	90	93	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	85	83	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70
9	85	77	72	69	84	76	72	69	76	72	69	75	71	68	74	71	68	67
10	82	74	69	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	351042
5°	334553
10°	297089
15°	234834
20°	157908
25°	75398
30°	24782
35°	9938
40°	5797
45°	5233
50°	2303
55°	1505
60°	2960
65°	4086
70°	3246
75°	5242
80°	5683
85°	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	22.2
10°-20°	499.0	44.8
20°-30°	264.3	23.7
30°-40°	48.6	4.4
40°-50°	16.4	1.5
50°-60°	12.3	1.1
60°-70°	9.3	0.8
70°-80°	8.1	0.7
80°-90°	8.5	0.8
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°	1010.8	90.7
0°-40°	1059.4	95.1
0°-60°	1088.1	97.7
0°-90°	1113.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2846	
5°	2702	247
15°	1839	499
25°	554	264
35°	66	49
45°	30	16
55°	7	12
65°	14	9
75°	11	8
85°	4	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2846
1°	2811
2°	2809
3°	2773
4°	2744
5°	2702
6°	2650
7°	2592
8°	2526
9°	2458
10°	2372
11°	2270
12°	2184
13°	2067
14°	1973
15°	1839
17.5°	1528
20°	1203
22.5°	855
25°	554
27.5°	310
30°	174
32.5°	105
35°	66
37.5°	44
40°	36
42.5°	21
45°	30
47.5°	11
50°	12
52.5°	22
55°	7
57.5°	14
60°	12
62.5°	7
65°	14
67.5°	6
70°	9
72.5°	1
75°	11
77.5°	10
80°	8
82.5°	11
85°	4
87.5°	12



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)