

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: P22184-R2

Luminaire Tested: **CSHIM40MED11**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P22184-R2
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: CSHIM40MED11
Description: ***THIS IS A REVISION OF P22184 TO UPDATE CATALOG
NUMBER***COMBOLIGHT ONE 18W LED HEAD, 7 LED UNIT NARROW
FLOOD DISTRIBUTION, 4000K
Light Source: (7) 4000K SMT LEDS
XPG
Ballast/Driver: (1) MAGTECH HIGH PERFECTION ELECTRONIC DRIVER
LP1020-24-C700

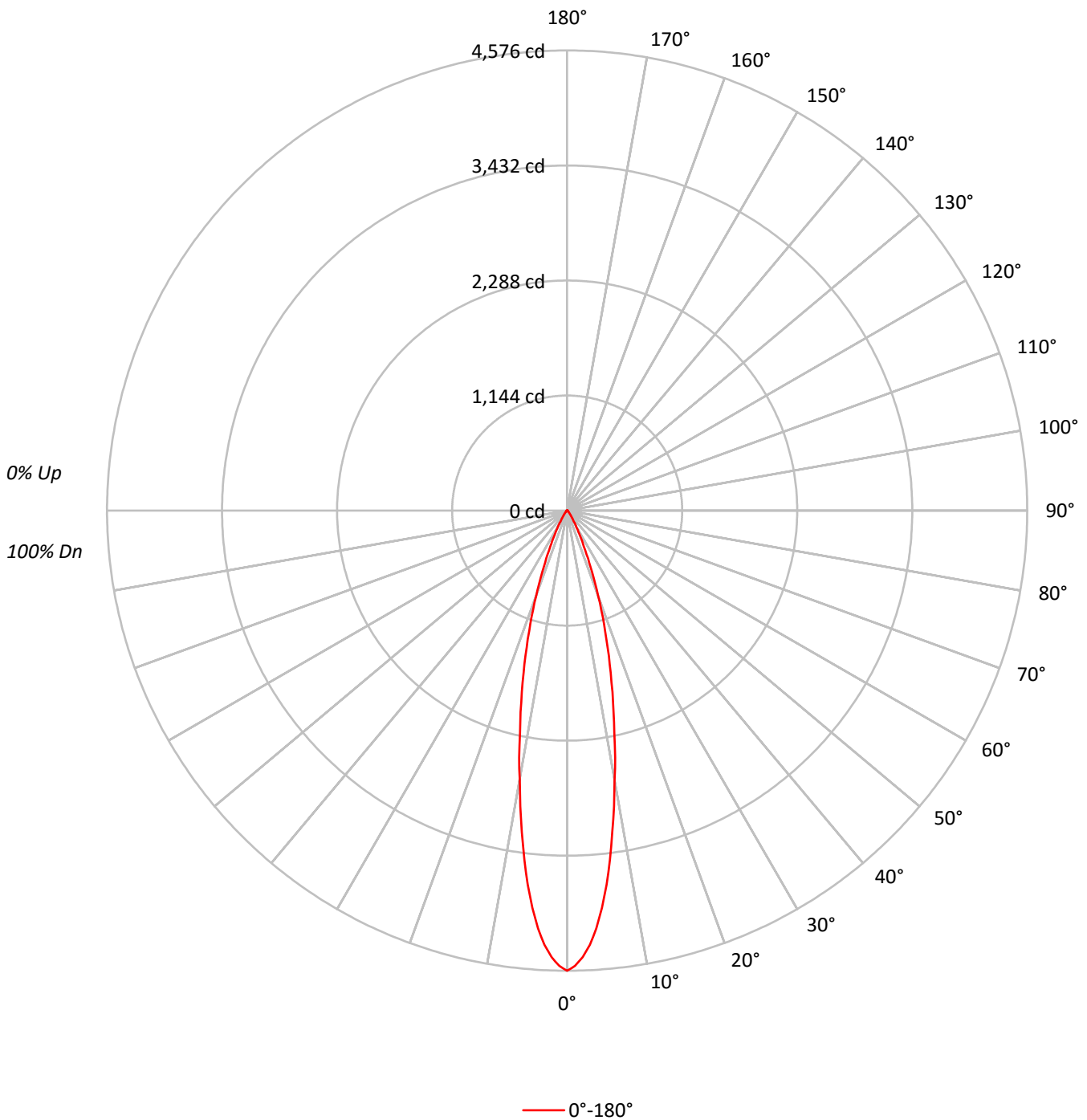
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1073.1 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): 0.14397
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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	86	82	79	85	82	79	84	81	79	83	80	78	77
8	91	84	80	77	90	84	80	77	83	79	76	82	78	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72
10	86	79	75	72	85	79	75	72	78	74	72	77	74	71	77	74	71	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	564430
5°	491057
10°	340175
15°	213254
20°	118398
25°	53486
30°	24070
35°	10842
40°	6924
45°	3489
50°	2111
55°	1935
60°	1727
65°	584
70°	1443
75°	477
80°	1421
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	31.4
10°-20°	461.1	43.0
20°-30°	197.3	18.4
30°-40°	52.1	4.9
40°-50°	14.3	1.3
50°-60°	6.5	0.6
60°-70°	2.8	0.3
70°-80°	1.3	0.1
80°-90°	0.5	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°	995.5	92.8
0°-40°	1047.6	97.6
0°-60°	1068.4	99.6
0°-90°	1073.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4576	
5°	3966	337
15°	1670	461
25°	393	197
35°	72	52
45°	20	14
55°	9	6
65°	2	3
75°	1	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4576
1°	4529
2°	4444
3°	4325
4°	4165
5°	3966
6°	3741
7°	3499
8°	3231
9°	2977
10°	2716
11°	2502
12°	2259
13°	2056
14°	1860
15°	1670
17.5°	1254
20°	902
22.5°	604
25°	393
27.5°	257
30°	169
32.5°	107
35°	72
37.5°	56
40°	43
42.5°	25
45°	20
47.5°	4
50°	11
52.5°	6
55°	9
57.5°	5
60°	7
62.5°	2
65°	2
67.5°	2
70°	4
72.5°	1
75°	1
77.5°	0
80°	2
82.5°	0
85°	0
87.5°	1



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)