

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: P22190-R2

Luminaire Tested: **CSHIW40SML11**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P22190-R2
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: CSHIW40SML11
Description: ***THIS IS A REVISION OF P22190 TO UPDATE CATALOG
NUMBER***COMBOLIGHT ONE 8W LED HEAD, 3 LED UNIT FLOOD
DISTRIBUTION,4000K
Light Source: (3) 4000K SMT LEDS
XPG
Ballast/Driver: (1) MAGTECH HIGH PERFECTION ELECTRONIC DRIVER
LP1020-12-C700

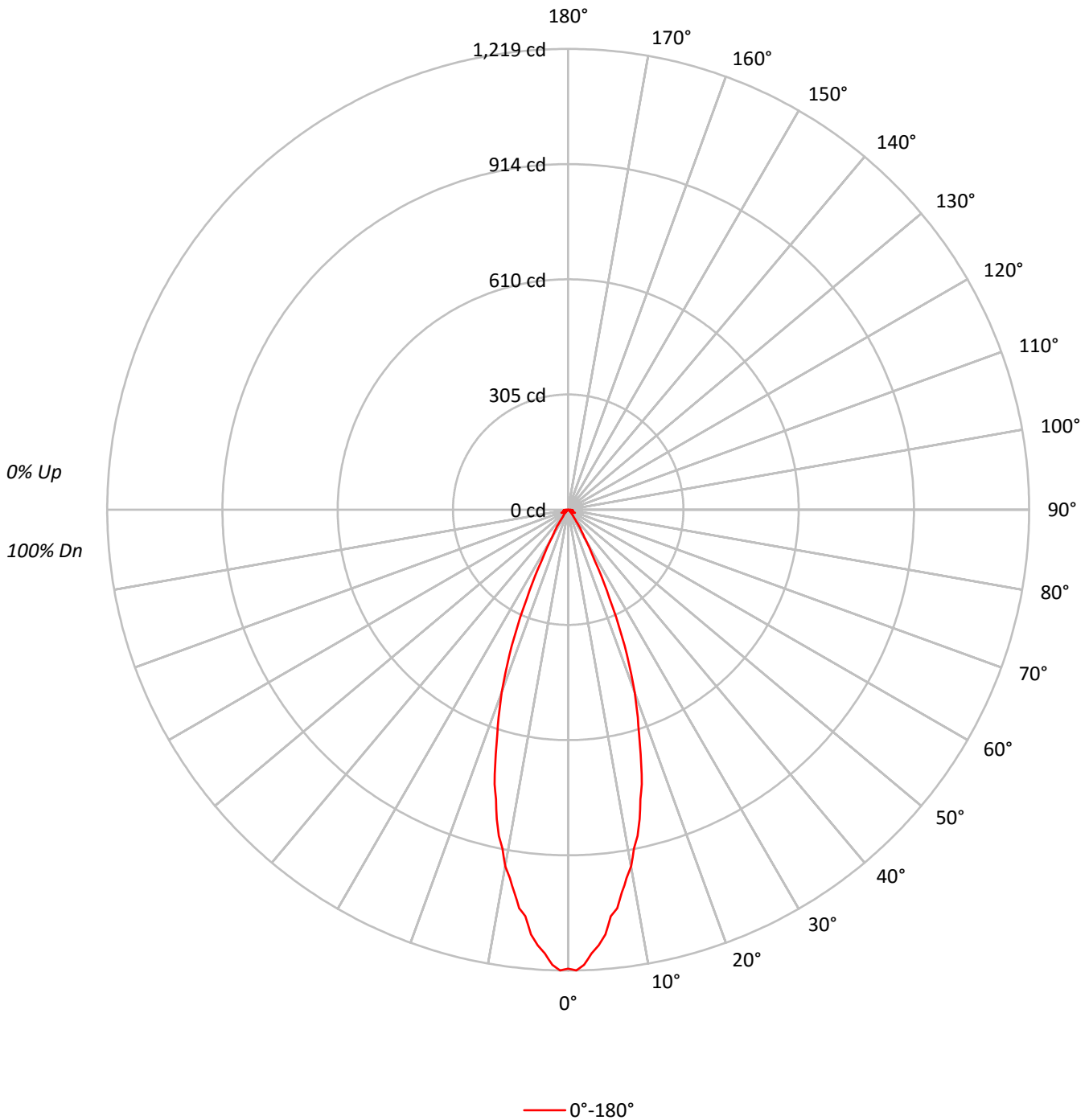
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 502.8 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.59
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): NR
Input Current (Ain): 0.06786
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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	108	103	99	95	106	101	98	94	98	95	92	95	93	90	92	90	88	87
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	75	72	69	68
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	69	64	62	68	64	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	266207
5°	248293
10°	213312
15°	170716
20°	119944
25°	62665
30°	22788
35°	10172
40°	5153
45°	2481
50°	1023
55°	4970
60°	4386
65°	10377
70°	5770
75°	8472
80°	8840
85°	27676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	20.2
10°-20°	203.6	40.5
20°-30°	121.7	24.2
30°-40°	26.6	5.3
40°-50°	7.5	1.5
50°-60°	9.8	2.0
60°-70°	13.3	2.6
70°-80°	10.3	2.1
80°-90°	8.3	1.7
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°	427.0	84.9
0°-40°	453.6	90.2
0°-60°	470.9	93.7
0°-90°	502.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1214	
5°	1128	102
15°	752	204
25°	259	122
35°	38	27
45°	8	8
55°	13	10
65°	20	13
75°	10	10
85°	11	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1214
1°	1219
2°	1205
3°	1176
4°	1155
5°	1128
6°	1081
7°	1062
8°	1022
9°	987
10°	958
11°	913
12°	882
13°	840
14°	789
15°	752
17.5°	623
20°	514
22.5°	390
25°	259
27.5°	153
30°	90
32.5°	61
35°	38
37.5°	22
40°	18
42.5°	12
45°	8
47.5°	9
50°	3
52.5°	11
55°	13
57.5°	13
60°	10
62.5°	12
65°	20
67.5°	12
70°	9
72.5°	8
75°	10
77.5°	13
80°	7
82.5°	9
85°	11
87.5°	7



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)