

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: FAIL-SAFE

Report Number: 767201

Luminaire Tested: **CTTWPP26A120**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: 767201  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CTTWPP26A120  
Description: FAIL-SAFE  
Light Source: (1) PHILIPS PL-T/26W/30/4P 1800 LUMENS  
TOTAL INPUT WATTS: 23.8 AT 120 VOLTS  
Ballast/Driver: (1) ACCULYTE CAT.# 1LPLT120M32C-B-LT

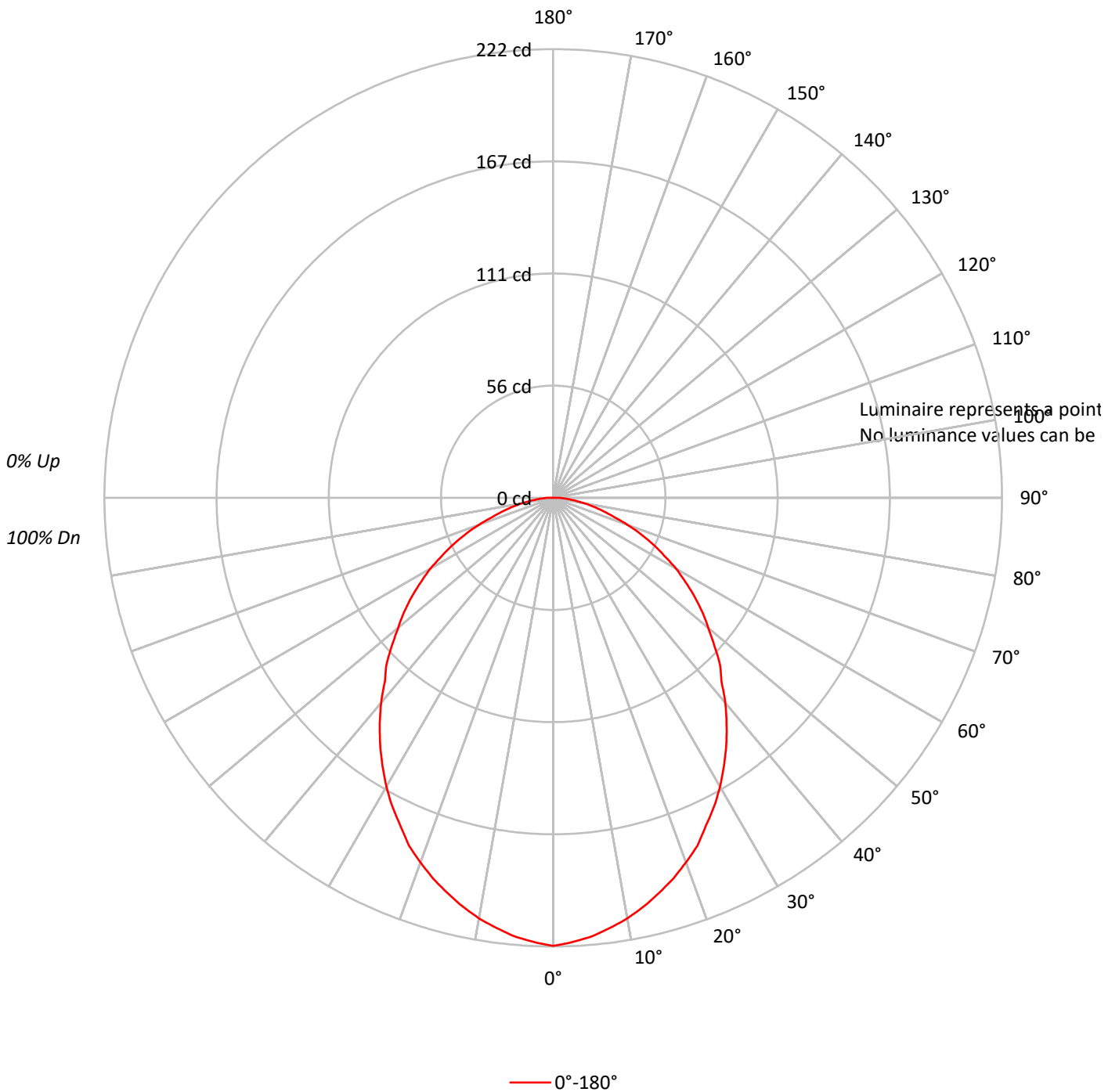
**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 510.4 lumens  
Efficiency: 28.4%  
Efficacy: 19.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

Input Watts (W): 26  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
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	34	34	34	34	33	33	33	33	31	31	31	30	30	30	29	29	29	28
1	31	30	29	28	30	29	28	27	28	27	26	27	26	25	26	25	25	24
2	28	26	24	23	28	26	24	22	25	23	22	24	22	21	23	22	21	20
3	26	23	21	19	25	23	21	19	22	20	19	21	20	18	20	19	18	17
4	24	21	18	16	23	20	18	16	19	18	16	19	17	16	18	17	16	15
5	22	18	16	14	21	18	16	14	18	16	14	17	15	14	16	15	14	13
6	20	17	14	13	20	16	14	12	16	14	12	15	14	12	15	13	12	12
7	19	15	13	11	18	15	13	11	15	12	11	14	12	11	14	12	11	10
8	18	14	12	10	17	14	12	10	13	11	10	13	11	10	13	11	10	9
9	17	13	11	9	16	13	10	9	12	10	9	12	10	9	12	10	9	8
10	16	12	10	8	15	12	10	8	11	10	8	11	9	8	11	9	8	8

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	20.6	4.0	1.1	0°	222	
10°-20°	57.0	11.2	3.2	5°	218	21
20°-30°	82.5	16.2	4.6	15°	202	57
30°-40°	93.2	18.3	5.2	25°	179	82
40°-50°	89.6	17.5	5.0	35°	149	93
50°-60°	76.3	14.9	4.2	45°	117	90
60°-70°	53.9	10.6	3.0	55°	85	76
70°-80°	27.8	5.4	1.5	65°	54	54
80°-90°	8.8	1.7	0.5	75°	26	28
90°-100°	0.8	0.2	0.0	85°	7	8
100°-110°	0.0	0.0	0.0	90°	3	2
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	160.1	31.4	8.9	165°	0	0
0°-40°	253.3	49.6	14.1	175°	0	0
0°-60°	419.1	82.1	23.3	180°	0	0
0°-90°	509.6	99.8	28.3			
90°-120°	0.8	0.2	0.0			
90°-150°	0.8	0.2	0.0			
90°-180°	1.0	0.2	0.1			
0°-180°	510.4	100.0	28.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	221.7
2.5°	220.0
5°	217.9
7.5°	214.7
10°	211.3
12.5°	207.1
15°	202.4
17.5°	197.5
20°	192.0
22.5°	186.3
25°	178.9
27.5°	172.3
30°	165.0
32.5°	157.2
35°	149.2
37.5°	140.9
40°	132.4
42.5°	123.2
45°	116.7
47.5°	108.1
50°	100.1
52.5°	93.1
55°	85.4
57.5°	77.5
60°	70.2
62.5°	61.9
65°	54.5
67.5°	46.9
70°	39.1
72.5°	31.7
75°	25.8
77.5°	20.6
80°	15.7
82.5°	11.4
85°	7.3
87.5°	4.6
90°	2.6
92.5°	1.3
95°	0.3
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)